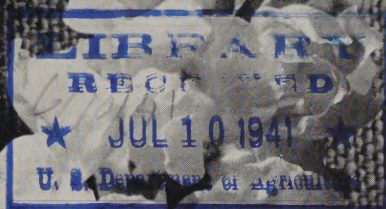


Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

"Flower Seeds for Florists"



"KOESTER'S WHITE"

We find this new Xmas. snap, the best long stemmed paper white. Turn to page 4.

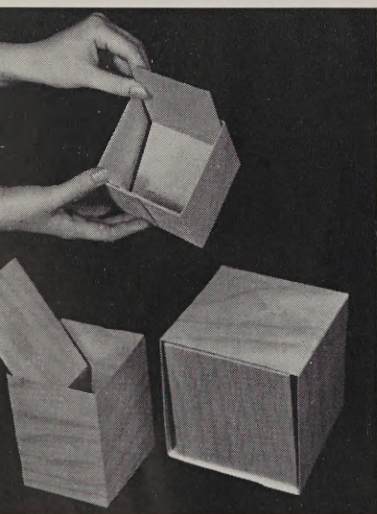
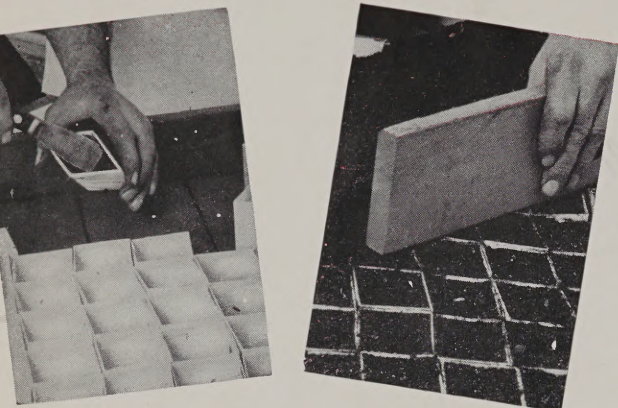
Catalog No. 41

June, 1941

Geo. J. Ball
I N C.
WEST CHICAGO
ILLINOIS

PLANT BANDS

HAVE BECOME a NECESSITY



The same box we use for shipping the plant bands to you will serve as a seed flat! Photo below shows 1000 plant bands, size 2x2x3, packed in two flats ready for shipment.

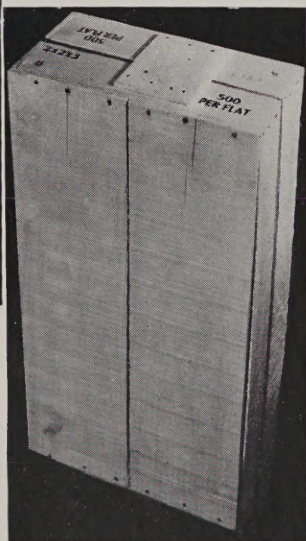


Photo above shows plant bands with bottoms which now come in six sizes, delivered to you with bottoms attached. We suggest that you try them for your hardy perennials and nursery stock that is to be carried through the winter or summer; they are especially valuable for use with stock to be moved from one place to another. We now offer 6x7x3 bands with bottoms which hold a dozen 1 1/4-inch bands. Your retail trade will pay better prices for plants in this attractive outfit.

The success that growers everywhere have had with our spruce veneer plant bands has made them an aid to better stock that no one should afford to miss. The ease with which they are handled is amazing as shown in photos at left. Very few operations are needed to open and fill them. And they hold two and a half times more soil than clay pots of the same size!

Proof that they offer transplanting insurance is illustrated in the photo at left showing three Petunia plants compared with a potted plant started at the same time. Your plants get no setback and are provided with uniform moisture—advantages every grower will appreciate! Ask for samples if you have not tried them!

For economy, we suggest that you let us have your order early enough to allow for freight delivery. We ship the cheapest way unless method of transportation is specified on order.

SIZES, PRICES AND SHIPPING WEIGHTS

Prices given are F.O.B.

		Wt. per 1000
1 3/4 x 1 3/4 x 2 1/2		19 lbs.
500.....	\$1.30	
1000.....	2.40	
2 x 2 x 3		24 lbs.
500.....	\$1.40	
1000.....	2.60	
2 1/2 x 2 1/2 x 3		33 lbs.
500.....	\$1.45	
1000.....	2.75	
3 x 3 x 3		38 lbs.
500.....	\$1.50	
1000.....	2.85	
3 x 3 x 4		44 lbs.
500.....	\$1.65	
1000.....	3.10	
4 x 4 x 3		45 lbs.
500.....	\$1.65	
1000.....	3.10	
4 x 4 x 4		63 lbs.
500.....	\$1.85	
1000.....	3.55	
3 x 3 x 6		66 lbs.
500.....	\$2.35	
1000.....	4.60	
4 x 4 x 6		82 lbs.
500.....	\$3.05	
1000.....	6.05	
6 x 6 x 6		98 lbs.
500.....	\$5.45	
1000.....	10.80	

The following sizes ONLY come with bottoms:

4 x 4 x 4		
500...	\$3.05	
1000...	6.05	72 lbs.
4 x 4 x 6		
500...	\$4.15	
1000...	8.20	125 lbs.
6 x 6 x 4		
500...	\$6.95	
1000...	13.70	160 lbs.
6 x 6 x 6		
500...	\$8.10	
1000...	16.10	180 lbs.
6 x 6 x 9		
500...	\$10.80	
1000...	21.40	350 lbs.
6 x 7 x 3		
500...	\$5.50	
1000...	10.80	155 lbs.

Quantity discount of 5% is allowed on orders of 25,000 made up of various sizes. If interested in larger quantities, write us.

These plant bands are made on the West Coast where labor and material conditions will make some price changes necessary this fall, making present prices subject to change without notice.

We are exclusive selling agents for these Bands east of Rocky Mountains, and stock them at West Chicago from where shipments are made. All Canadian orders are handled exclusively for us by Dale Estate, Brampton, Ontario, to whom orders should be sent.

SHORTAGES!

Because of unusual flood conditions in California nearly all the past winter and the blocking of foreign supplies, a few flower seed items for this season might be short. Our connections thruout the seed world will enable us to supply all available lines, and the chances are the few shortages will not be serious.

As we go to press our greenhouse seed crops of such valuable items as non-branching Stock, forcing Snapdragons and such others that can be produced to advantage in our greenhouse, promise to be in normal supply. We must learn to adjust ourselves to these abnormal times. We've gotten along very well with few or no Dutch bulbs; so, please bear with us if a few flower seed items must be cut out.

Geo. J. Ball.

(INDEX PAGE 24)

HAVE YOU A CROP PROBLEM?

Geo. J. Ball, Inc., with 100,000 square feet of glass plus a trained and experienced staff, is ready to share their information with you. The answers to many of your questions will be found in the publications below. Write if we can help you further.

GROWER TALKS (Monthly)

By Geo. J. Ball and others

Our monthly medium for suggesting timely sowing of seasonal crops, along with practical suggestions for growing them on. Also includes notes of general Floricultural value as noted by the editor and his staff.

Monthly 30c per yr. 2 yrs. 50c.

BALL RED BOOK— 5th Edition *By Geo. J. Ball*

Exactly 50 yrs. growing experience with miscellaneous crops is gathered into this paper bound booklet. Two hundred and twenty-five subjects are treated in this new edition. We gladly mail it to our customers for the cost of printing and mailing which is 30c.

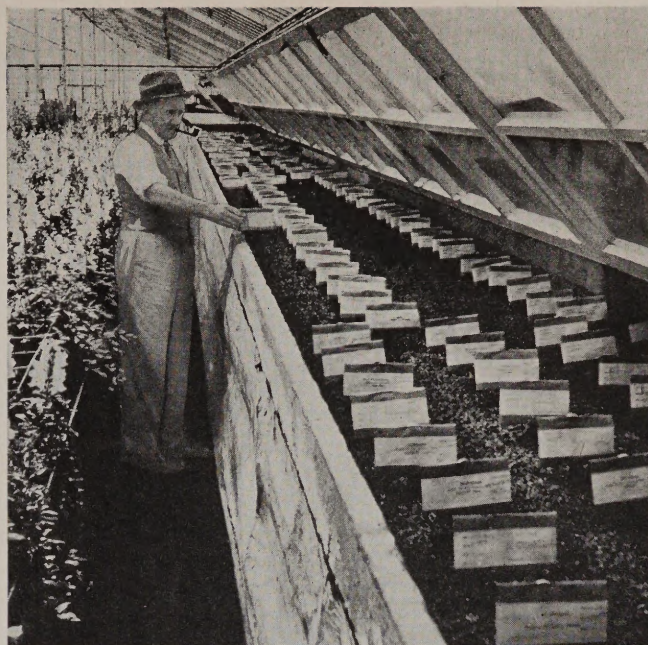
GRAVEL CROPS AND SUB-IRRIGATION 2nd Edition *Vic Ball*

Besides latest slants on gravel, it covers sub-irrigation of both pot plants and bench crops—directions, pros and cons, our own experiences with it. You should be informed on these promising new developments. 56 pages, freely illustrated. Price 10c.

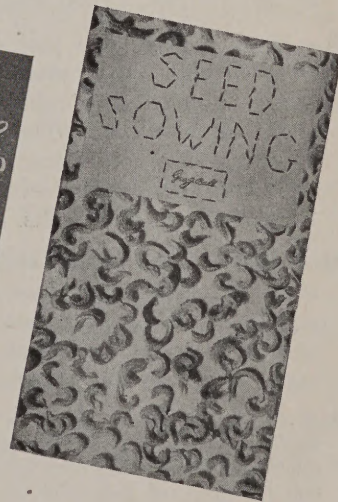
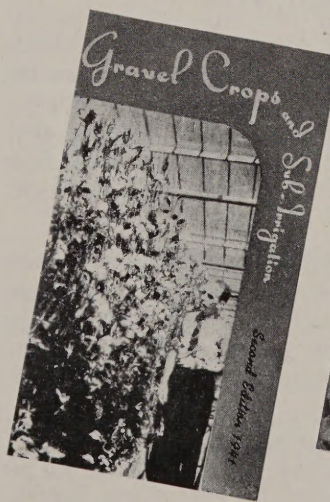
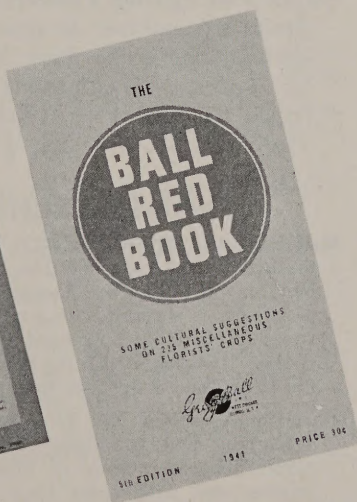
SEED SOWING

By Geo. J. Ball and Geo. Jr.

All practical phases of this popular subject are fully gone over in this booklet. Added to it is a complete table giving the number of seeds per given weight, time and temperature required for germination and longevity of 400 varieties of Florist Flower Seeds. Sent gratis with any order.



Picturing one half of our 300 ft. bed used every day of the year for seed testing. Note this is done in soil. Various bottom temperatures are maintained for the cool and warm crops. Also when a valuable lot shows up poor, it is tested over three times. Frequently a second test, under apparently identical conditions, will show a poor lot coming well. Why? Just one of those numerous scientific problems our business is full of. But when a lot of seed comes from this bed marked O.K., you can depend on it.



For Index and business terms see page 24

Standard Varieties of Special Merit



Ball Rose Supreme

SNAPDRAGONS

Maryland Pink (*Winkler*). A new appealing light soft pink for Christmas. Large bold flowers, clean heavy producing growth. One trial came into heavy cut for Christmas and January leaving its space free by Valentines Day for the next crop. $\frac{1}{2}$ Tr. pkt., (500 seeds), \$1.25; Tr. pkt., (1000 seeds), \$2.00.

Koester's White. Our past winter's trial of this clearly shows it with longer stems and flower spikes than has White Wonder. Also individual flowers are some larger and clear paper white. We also find it among the early flowering class with a June sowing; and on raised beds of a 50 degree house, it will make Xmas in our latitude. Tr. pkt., \$2.00; 3 Tr. pkts. for \$5.00.

Mary Ellen. This variety sent out last season with a short seed crop seems to have all the desirable points. Light rose pink color, with a quite long stem and flower spike and Xmas flowering with no grassy growth. What more could be asked? Tr. pkt., \$2.00; 3 Tr. pkts., \$5.00.

Ball Christmas Red. This is an early selection from our Velvet Supreme to which it is identical in color. With us a July 1 sowing on a raised bed of a 50 degree minimum house will get into full crop for Xmas, for which the color is very desirable. Available in $\frac{1}{2}$ Tr. pkts. only at \$1.00 each.

On this page we've gathered together some new and standard varieties that we find deserve special consideration. Most of them are generally accepted and found of special value in all sections. Most of the first year varieties are of our own originating. Tho they are offered at little or no advance over standard prices, our experience as market growers enables us to determine their market value.

Ball Matricaria. This long-stemmed seed produced strain comes 80-85% full double flowered, clear white and is of such vigorous growth that it produces long stemmed flowers under our trying outdoor conditions. In well drained soil and with slight protection BALL MATRICARIA will stand our winters. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75.

Myosotis Ball Early. This should be described as an early flowering Blue Bird. Tho flowering quite early, it will be plenty long stemmed for cutting if grown in deep, well enriched soil as it should be. Some Forget-Me-Not for cutting should be had by every retail grower. This variety is also choice to use as small pot plants and bedding. Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$2.85.

All Double Petunias. This unrivaled double strain is sown by some growers during summer and early fall for strong 5" specimens for early spring. We constantly carry a full supply of ALL DOUBLE PETUNIAS. See our spring catalog for complete list and prices.

WINTER SWEET PEAS

Ball Rose Supreme. This will be found a substantially improved Ball Rose Improved. The stems are longer and the rose is not so deeply bronzed during spring months. Also the flowers are larger and of better form. $\frac{1}{2}$ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Ball Salmon. This is the same coral pink found in Daphne, but the color is considerably deeper. Long stemmed and fairly large. $\frac{1}{2}$ oz., 35c; 1 oz., 50c; 4 ozs., \$1.50; 1 lb., \$5.00.

Sweet Pea Spring Flowering Black Seeded White. Really a "stand out" in spring blooming whites. Beyond question this is the finest longest stemmed pure white for April and May blooming. Extra large flowers, heavily frilled and lots of 4's. (Not winter blooming.) $\frac{1}{2}$ oz., 75c; 1 oz., \$1.40; 4 ozs., \$5.50.

NON-BRANCHING STOCKS

Ball Supreme (New No. 22) We are sure this will be found the best commercial pink. The color is between our light early No. 11 and the darker, longer stemmed No. 14. Its clear rose pink color is warmed with a slight salmon tinge. Ball Supreme is one of the longest stemmed ones on the list. In percentage of doubles it averages with the best. We have just a fair supply of this variety and at this time can't promise more than \$1.00 packets.

Ball Purple. (New No. 21) Another result of our work in developing new, non-branching colors. This is a bright, strong purple about the shade of Elk's Pride in the Bismarcks, but brighter and with violet tinge. Ready in Sept. T.P. only at \$1.00 each.

FLORISTS' PANSIES

(25,000 seeds per ounce)

European Pansy seed cannot be depended upon to come thru this season. Most of the California seed crops have been under water more or less all winter, but as we go to press the prospects for a fair crop seem good; however, the chances of some rotting out still remains. We are glad to say that the quality of California strains is generally excellent and dependable. Also their new crop is usually received during late July and early August, considerably earlier than from Europe. But harvesting or picking California seed on a piece work basis, costs as much as the total European price. This labor situation in California must, of course, be reflected in the price. With 25,000 seeds per ounce, if sown and managed carefully, the added cost of this year's seed can be easily absorbed by a slightly increased price for plants. Our public is becoming accustomed to some price inflation in all lines. This season there is a substantial reason for growers of Pansy plants as well as others to fall in line.

***Ball Giant Mixture.** Our well-known, excellent all-purpose mixture. This mixture is based on the best Roggli Giants we have been able to find. To it is added Swiss blue, Coronation Gold, and Swiss white in proportions to give the necessary balance of all colors. Our best all-purpose mixture. Tr. pkt., 40c; 1/4 oz., \$2.00; 1/2 oz., \$3.50; 1 oz., \$6.00; 4 ozs., \$22.00.

Ball Giant Mixture Dwarf Strain. Distinctly dwarf and full of attractive Roggli colors. A choice dwarf mixture. Tr. pkt., 50c; 1/4 oz., \$2.00; 1/2 oz., \$3.50; 1 oz., \$6.00; 4 ozs., \$21.00.

Roggli Giant Mixture. A fine bedding strain with mixture predominating in rich red and bronze shades. Tr. pkt., 50c; 1/4 oz., \$2.25; 1/2 oz., \$3.75; 1 oz., \$6.50.

We also supply originator's seed in his packages as follows: Tr. pkt., \$1.10; 1/8 oz., \$2.35; 1/4 oz., \$4.65; 1/2 oz., \$6.50; 1 oz., \$12.75.

***Ball Winter Flowering.** This is our own development thru single plant selections on the original Don Pansy. We have greatly improved it in size and coloring and some in stem and vigor of growth. If sown about Aug. 1, grown in enriched light soil cool house 45-48 degrees nights, Ball Winter Flowering Pansies will get up 3-4 ft. and should be supported accordingly. 1/2 tr. pkt., 60c; Liberal tr. pkt., \$1.00; 1/8 oz., \$2.00; 1/4 oz., \$3.50.

Geneva Giants. A fine domestic Swiss strain. Outstanding in our trials for rich colors. Tr. pkt., 75c; 1/4 oz., \$2.50; 1 oz., \$8.50.

Dwarf Geneva Giants. Similar to regular Geneva Giants (above) but even more uniformly compact in habit. Tr. pkt., 75c; 1/8 oz., \$1.50; 1/4 oz., \$2.75; 1 oz., \$10.00.

Following two varieties originated by Carl Englemann; Saffron Walden, England, and seed we supply is grown by him.

Englemann Giant Mixture. A splendid mixture of real Giants in a full range of good Pansy colors. In size and colors, quite outstanding. We offer the originator's seed. Tr. pkt., 50c; 1/4 oz., \$2.50; 1/2 oz., \$4.50; 1 oz., \$8.00.

Englemann's Special. Distinctly dwarf 5-blotched strain. Rich coloring and compact habit. Originator's seed. Tr. pkt., 50c; 1/4 oz., \$2.50; 1/2 oz., \$4.50; 1 oz., \$8.00.

***Maple Leaf Giants.** Extra large flowered mixture of Giants. Good stems and extra heavy growth. Tr. pkt., 50c; 1/4 oz., \$2.50; 1/2 oz., \$4.50; 1 oz., \$8.00.



Picking "All the Best" in Pansies in our West Chicago trials. Domestic strains are improving annually and in most cases will be as good as those formerly produced abroad according to our observations. Scribes left to right: Vic Ball, Chuck Salt and Geo. Ball, Jr.

***Canadian Giants.** A select Canadian stock of Maple Leaf Giants that it improves some in size. Tr. pkt., 75c; 1/8 oz., \$1.30; 1/4 oz., \$2.50; 1 oz., \$9.00.

Steele's Jumbo Mixture. Extra large flowered strain of Giants; strong growth, and long stem. Tr. pkt., 75c; 1/8 oz., \$1.75; 1/4 oz., \$3.25; 1/2 oz., \$6.25; 1 oz., \$12.00.

Improved Swiss Giants. Choice colors combine with nice size and stem to make this well-known strain excellent for all purposes. Tr. pkt., 50c; 1/4 oz., \$2.25; 1 oz., \$8.00.

Donovan's Strain. As it checks out in our trials, this is a compact, fairly large flowered strain of attractive colors. A popular strain for bedding. We supply originator's seed. Tr. pkt., 75c; 1/4 oz., \$3.00; 1 oz., \$10.00.

SWISS GIANTS IN SEPARATE COLORS

***Coronation Gold.** The best true golden yellow. Tr. pkt., 75c; 1/8 oz., \$1.50; 1/4 oz., \$2.75; 1 oz., \$10.00.

Fire Beacon. Bright wallflower-red with touch of orange. Tr. pkt., 50c; 1/4 oz., \$2.25; 1 oz., \$8.00.

Alpenglow. Rich garnet red. Tr. pkt., 50c; 1/4 oz., \$1.75; 1 oz., \$6.00.

Rhinegold. Large yellow with dark center. Tr. pkt., 50c; 1/4 oz., \$2.00; 1 oz., \$7.00.

Lake of Thun. Fairly deep blue with dark center. Tr. pkt., 50c; 1/4 oz., \$2.00; 1 oz., \$7.00.

Mt. Blanc. Best white in the Swiss Giant class. Tr. pkt., 50c; 1/8 oz., \$1.25; 1/4 oz., \$2.25; 1 oz., \$8.00.

SMALLER BEDDING VARIETIES

Golden Queen. Clear yellow with some markings.

Lord Beaconsfield. Standard bedding blue with lighter shaded edge.

Snow Queen. Small, clear paper white. Each: Tr. pkt., 25c; 1/4 oz., 65c; 1 oz., \$2.25.

***Baby Delight.** Extra bright, early flowering and fringed blue that shades lighter toward the edges. Quite outstanding for its attractive, light blue effect. Tr. pkt., 50c; 1/4 oz., \$1.25.



Pictures one of our three houses of forcing Snaps for seed. Side and ridge ventilators are tightly screened against the danger of insect crossing. The new gravel or soilless culture method of growing is used with every bench in this house and with perfect results.

FORCING SNAPS

The trade generally agrees that the value and demand for well grown Snaps is increasing. Whether improved varieties or better business is responsible, we all agree that varieties should be carefully considered. We must also recognize two distinct classes, early and late. While the early ones generally should pay out better because of the shorter time they occupy bench space, few of the early ones are long stemmed. Some of the late ones are hardly profitable unless started quite early and grown on a raised bench. An early enuf start will generally mature them into a January crop. We have tried to make the description of the varieties

offered dependable for it is to our interest as well as yours that suitable kinds are used. When we offer untried novelties, we must, of course, depend on the originator's description; and unless his climate and growing methods are used, his experience and description might be unintentionally misleading. The seed we are offering now of all the following standard varieties is our own greenhouse harvest of last season; and to be certain that it is as true as it can be, a trial of every lot was flowered this spring. While this is not a guarantee against all uncertainties of breaks, it is doing all we possibly can to supply good seed.

NOVELTIES FOR 1941

A combination of 3 or more full packets any varieties at following prices except where noted:

Where Price Is: \$1.00 per pkt., we supply *any* 3 for \$2.50; *any* 5 for \$3.50; *any* 7 for \$4.55. \$1.50 pkts., we supply *any* 3 for 4.00; *any* 5 for \$6.50; \$2.00 pkts., we supply *any* 3 for \$5.00; *any* 5 for \$7.50.

1/2 Trade pkts. of any variety priced at \$1.00 are supplied at 60c.

1/2 Trade pkts. of any variety priced at \$1.50; supplied at \$1.00. No 1/2 pkts. on \$2.00 varieties.

BALL CHRISTMAS RED

This rich red selection from Velvet Supreme is easily flowered for Xmas in any section. Not quite so long stemmed as its parent. A June 20 sowing on ground beds easily makes Xmas for us. Liberal half packets only, \$1.00.

KOESTER'S WHITE and BALL LAVENDER

See 12 Best.

MARYLAND PINK (*Winkler*)

A new appealing light pastel pink. Large bold flowers; clean heavy producing growth. Hit Christmas easily in our trials. Very promising. 1/2 Tr. pkt. (500 seeds), \$1.25; Tr. pkt., (1000 seeds), \$2.00.

AMERICA (*Hodaly*)

A fine deep rose with contrasting bronze lip. Extra large florets on well set spikes. Tr. pkt., \$1.50.

BETTER TIMES (*Windmiller*)

"Our star for '41" says Fred Windmiller of this fine deep brilliant cerise rose partner to Christmas Cheer. Same fine early and productive habit of Christmas Cheer. Originator's packets, \$2.00.

SHAFFROTH'S WHITE

Fine new white. Tr. pkt., \$2.00. (No group price allowed on this variety.)

SEE PAGE 6 FOR STANDARD VARIETIES

BALL "TWELVE BEST"

Varying growing conditions, climates, seasons and demands make this list somewhat uncertain, but it is not only based on our own experience, but on the demand from all sections which should make it of interest.

A combination of 3 or more full packets any varieties at following prices except where noted:

Where Price is: \$1.00 per pkt., we supply *any* 3 for \$2.50; *any* 5 for \$3.50; *any* 7 for \$4.55. \$1.50 pkts., we supply *any* 3 for \$4.00; *any* 5 for \$6.50; \$2.00 pkts., we supply *any* 3 for \$5.00; *any* 5 for \$7.50. 1/2 Trade pkts. of any variety priced at \$1.00 are supplied at 60c. 1/2 Trade pkts. of any variety priced at \$1.50; supplied at \$1.00. No 1/2 pkts. on \$2.00 varieties.

KOESTERS WHITE

Has been grown exclusively for some years by its originator and introducer, Wm. Koester, of Indianapolis, Indiana. Our trial of it the past season clearly shows that it overcomes the weak or short stemmed habit of White Wonder. Pure paper white, long flower spike and early or Xmas flowering. Ready for immediate delivery from Mr. Koester's last Year's seed that our tests show 1700 seedlings per trade packet. Priced at \$2.00 per packet.

WHITE WONDER

Thru numerous single plant selections, we have improved the placement of the flowers on the stem of this pure white, also the tendency to short weak stems has been improved. Tr. pkt., \$1.00.

CHRISTMAS CHEER (Windmill)

Extra early, long stemmed clear rose pink. Will easily make Xmas with us with an average of three flowers per plant thru a July 1 sowing. The ideal early pink. Originator's packets, \$2.00.

MARY ELLEN

Extra early, quite long stemmed, light or silver pink. We recommend sowing this about a week earlier than Christmas Cheer if wanted for Xmas. Both this and Christmas Cheer are quite free of unnecessary or grassy growth. They are easily the best early pinks. MARY ELLEN also in originator's packets only, \$2.00.

CHEVIOT MAID RESELECTED (Ball)

The standard, fairly early clear rose pink. Our selected strain of this comes quite true and even. Tr. pkt., \$1.00.

KLONDYKE SUPREME

We find this rather late yellow, larger flowered and not quite so grassy as is Coates yellow. The grassy growth tendency we find partly overcome when grown on a raised bed. Color and stem are excellent. Tr. pkt., \$1.50.

ETHEL

Color of this is as golden yellow as any on the list and with flowers closely spaced. It is fairly early. Only fault we find with it is the spikes lack the heaviness or diameter of some. Tr. pkt., \$1.50.

AFTERGLOW

Continues to be a good standard, attractive bronze. Mid-season. Tr. pkt., \$1.00.

EARLY SUNLITE (Ball)

Extra early, light bronze with free flowering habit and long stemmed. For this reason it was selected from the weak, short stemmed, no account New Deal. Tr. pkt., \$1.00.

GLORIOUS

Has been described as a glorified Afterglow that it improves in being a darker, more brilliant reddish bronze color. An attractive commercial color. Tr. pkt., \$1.50.

Our new Ball Lavender above—note fine long spike. Practically 100% free of rogues too. A real improvement in lavenders.

VELVET SUPREME (Ball)

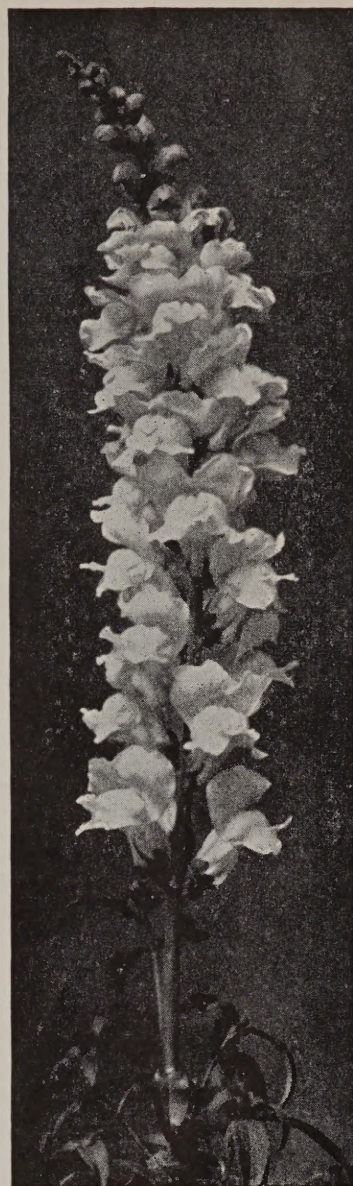
Uniformly rich, velvety scarlet crimson. Gets entirely away from the bluish crimson of Velvet Beauty from which we selected it. Tr. pkt., \$1.00.

BALL LAVENDER

Fully 99% true uniform light lavender. Makes little or no grassy growth and with us flowers freely in January if sown early. Seed available June 15-20. Tr. pkt., \$1.50.

BALL FORCING MIXTURE

A formula mixture of the best above varieties except originators. Tr. pkt., \$1.00.



STANDARD WINTER SNAPS

Except the 12 Best

Starred (*) varieties we find of special value.

A combination of 3 or more full packets any varieties at following prices except where noted:

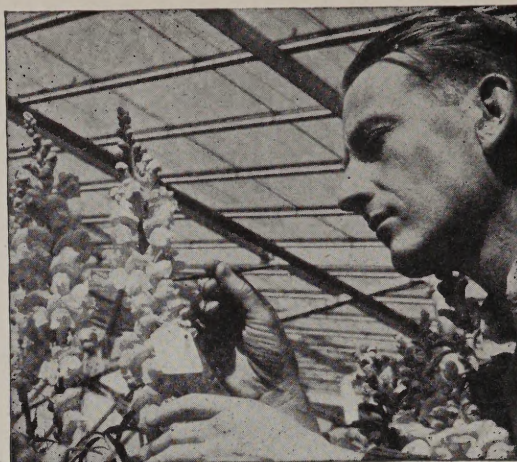
Where Price Is: \$1.00 per pkt., we supply any 3 for \$2.50; any 5 for \$3.50; any 7 for \$4.55. \$1.50 pkts., we supply any 3 for \$4.00; any 5 for \$6.50; \$2.00 pkts., we supply any 3 for \$5.00; any 5 for \$7.50.
1/2 Trade pkts. of any variety priced at \$1.00 are supplied at 60c.
1/2 Trade pkts. of any variety priced at \$1.50; supplied at \$1.00.
No 1/2 pkts. on \$2.00 varieties.

	Tr. pkt.
Bertha Baur. Standard lavender; some rogue colors.....	\$1.00
Captor. Pure white; fair habit.....	1.00
Celestial. Long stemmed light yellow.....	1.00
Ceylon Court Dark. Excellent yellow.....	1.00
Cheviot Maid Yellow. Good stem; medium size flower....	1.00
*Coates Yellow Perfection. Not early, but a bright color and excellent stem.....	1.00
*Daybreak. (Rust-proof strain) Briarcliff shade of clear pink.....	1.00
*Gilbert's Pink. Similar to Rose Queen in color and habit; fairly early and preferred by many Ohio growers.....	1.50
Ideal (Hodaly). An attractive and unusual bi-color bronze and gold.....	1.50
Kirkwood Beauty. Bronze orange.....	1.00
*Lucky Strike. The standard strong growing white for late winter and spring; an excellent producer.....	1.00
*Marie Louise. A beautiful light shell pink especially when flowered in spring; choice color and exceptionally uniform..	2.00
Maiden's Blush. (Thompson). Originator's Description: "Pink suffusion over white or appleblossom. Very beautiful in all combinations; fine flowers, stems and foliage." 1/2 tr. pkt. 85c.....	1.50
Marion. White; good fairly early habit.....	1.50
*Miss Wooster. Exceptional for large attractive flower and spike; fine light golden orange for spring.....	1.00
New Cincinnati. In several ways, this is a fine rose pink. Color medium light—about midway between Rose Queen and the new Mary Ellen. A choice shade. Large flowered, long stemmed, fairly early.....	1.00
New Deal. Extra early bronze; prefer Sunlite.....	1.00
Orchid. (Schrock's). Varies some in color.....	1.00
*Peggy Schumann. Glowing rose pink; excellent full spikes.....	2.00
Radiance. Large flowered extra early pink.....	1.00
*Rose Queen. Very fine deep rose for late winter crop; compact full spikes, and a good producer.....	1.00
St. Louis Early Pink. (Rowe) Luminous silvery pink. Extra fine large spikes for spring.....	1.50
Schumann's Lavender. Choice full fine spikes; excellent color. True, and clearly the best lavender for spring. No half packets. Originator's packets.....	2.00
Schumann's Yellow. Fine large yellow.....	2.00

SHAFFROTHS PINK

We find this produces extra long stems and the longest flower spikes of any variety. Clear medium rose pink in color but in roguing our planting, 27% were removed, 12-15% being rogue colors. While we believe our seed will improve this, we offer both the originator's and our own growing at \$2.00 per packet.

Sunray. "A deep bright yellow, extra long fine spike and a good shipper.....	2.00
Suntan. Quite early flowering bronze or tan color that many prefer to Afterglow because of earlier and freer flowering....	1.00
Terry's Surprise Improved. An unusual rose shaded orange; fine for spring.....	1.00
Velvet Beauty. Standard crimson; prefer Velvet Supreme..	1.00
Westover's Fringed White. Large fringed pure white for spring.....	1.00
White Prosperity. Clear white; free producer.....	1.50
Windmill's LaFrance. Fine "LaFrance" pink.....	1.50
Windmill's Lilac. Our trials clearly prove this the earliest lavender. Color is brightened with lilac shading. True to color, well placed flowers, and no grassy growth.....	1.50



Our "Phil" Jones has a particular interest in Snapdragons. Thru his experience at the Davis University of California school and with the late Richard Diener, he is well qualified to carry on our breeding work in all lines.

Windmill's Rose Pink Cheviot. Very early, true, and free flowering selection of Cheviot.....	1.00
Windmill's Appleblossom. A clear medium rose; attractive color.....	1.00
Windmill's Snow White. Excellent white for Easter and the warm spring months.....	1.00
Winter Helen. Improved Helen; a coral rose.....	1.00

Yellow Wonder. Extra early flowering but with the same weak stem habit of White Wonder. Color is an attractive golden yellow. \$1.50.

Standard Early Mixed. Carefully blended mixture of the best cut flower colors listed above..... .75

BEST RUST RESISTANT STRAINS

(Not Winter Flowering)

This class is suggested only for outdoor sections or climates that encourage rust. With us they are nearly 100% rust proof until cold, wet fall weather sets in. They are not so early flowering or true to color as the forcing varieties that most growers prefer for outdoor growing.

***Rosalie.** (New *Majus Grandiflora*). Color of Rose Queen in the Earlies. Fine closely-set spike and good stem. Should be included in every outdoor Snap planting. Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.75.

Swingtime. (Maximum). A very nice medium light pink with yellow lip and white throat. Good cut flower habit. Tr. pkt., 25c; 1/4 oz., 85c; 1 oz., \$3.00.

Alaska (Maximum). Best of the cut flower whites according to our experience. Tr. pkt., 25c; 1/4 oz., 85c; 1 oz., \$3.00.

Buttercup (Majus Grandiflora). Medium deep canary yellow; very free flowering. Tr. pkt., 25c; 1/4 oz., 75c; 1 oz., \$2.50.

Canary Bird. (Maximum). Clear light yellow, long stems. Fine cut flower variety. Tr. pkt., 25c; 1/4 oz., 85c; 1 oz., \$3.00.

Defiance (Majus Grandiflora). Color shades some in the bronze and Wallflower Red classes. Truest and longest-stemmed variety in this color. Tr. pkt., 25c; 1/4 oz., 75c; 1 oz., \$2.50.

Maximum Crimson. Deep velvety crimson—same as the Early Velvet Supreme. Growth not quite as strong as other Maximums, good cut flower variety. Tr. pkt., 25c; 1/4 oz., 85c; 1 oz., \$3.00.

Red Cross (New). Bright crimson with prominent yellow lip. Effectively contrasting colors and good cutting habit. Tr. pkt., 25c; 1/4 oz., 85c; 1 oz., \$3.00.

Improved California Mixture (New). Strictly for cut flower purposes, this new formula mixture is offered in place of the old U. of California strain which our trials show to be somewhat uneven. Tr. pkt., 25c; 1/8 oz., 85c; 1 oz., \$3.00.

Golden Orange. Dwarf for bedding only. Light golden bronze with white throat. Very bright combination. Tr. pkt., 25c; 1/4 oz., 85c; 1 oz., \$3.00.

DELPHINIUM

(10,000 seeds per oz.)

Delphinium are definitely on the way "in" with American gardeners and florists. Their stately colorful spikes are tops both for perennial borders and cut work. Most important too is their ability to flower creditably almost anywhere in the U. S.—the hot mid-west, Florida, California, and over the East. They are, however, at their best where moderate temperatures prevail.

CULTURE For outdoor work they are best sown in late spring or early summer which gives strong flowering plants the following June; fall sowings won't really do much the next spring, but will often give a nice second crop in the fall. Hybrids such as Pacific Hybrids are most used for this.

Eastern growers particularly are expanding their mid-winter forcing of Delphinium finding a profitable market for the cut flowers from mid-winter thru spring. Sow June 1, pot seedlings and summer over in a cold frame. Bench in a well drained clean soil about mid-September. Keep them at 50 degrees and they should be in bloom in December. Belladonna and Bellamosum are best used for this sowing because of earlier and freer bloom.

For really fine spring specimen spikes, sow Pacific Hybrids Aug. 1, keep in cold frame till Nov. 1 then bench to a cold house. We even let them freeze hard till February at which time heat is gradually put to them. That's how to get those fine large 3 and 4 inch florets you see pictures of!

NOVELTIES

Blue Bird Series. (New). Sets a new standard in blue hybrids of today. The clearest of the medium blues with white bee. True to color and carry well formed round flowers up to 2½ inches in diameter. Tr. pkt., \$2.00; ⅛ oz., \$4.00; ¼ oz., \$7.00; 1 oz., \$24.00.

Black Knight Series. (New). The darkest of them all. Huge individual flowers of beautiful form with heavy velvety texture. Tr. pkt., \$1.25; ⅛ oz., \$3.00; ¼ oz., \$5.50; 1 oz., \$20.00.

Blue Jay Series. (New). A true blue color which is so rare in nature and difficult to obtain. A striking medium blue with dark bee. Tr. pkt., \$1.25; ⅛ oz., \$3.00; ¼ oz., \$5.50; 1 oz., \$20.00.

Cameliard Series (New). A pure lavender self with white bee. Possesses classical perfection of form of the individual flowers being very round and flat. Tr. pkt., \$1.25; ⅛ oz., \$3.50; ¼ oz., \$6.50; ½ oz., \$12.00; 1 oz., \$22.50.

PACIFIC HYBRIDS

***Round Table Series. (New).** All the colors of the "Knights and their Ladies" Series including many not yet introduced. Invaluable for show purpose. Tr. pkt., \$1.25; ⅛ oz., \$3.00; ¼ oz., \$5.50; 1 oz., \$20.00.

***Galahad Series.** Described by the originator as an improvement over Giant Pacific Clear White in purity of color, size of flowers, and general trueness of strain. The finest white Delphinium in existence from seed. Tr. pkt., \$1.50; ⅛ oz., \$4.00; ¼ oz., \$7.00; 1 oz., \$24.00.

Lancelot Series (New). Clear lilac self; extra large flowered and a fine pastel shade, color variable. Tr. pkt., \$1.25; ⅛ oz., \$2.50; ¼ oz., \$4.00; 1 oz., \$14.00.

***Blue Shades.** Our most popular strain, a mixture of Light Blue and Dark Blue Shades.

Lavender Pastel Shades. A mixture of pastel lavender shades.

Violet Shades. Deep rich violet-blue colors with many contrasting white bees.

Pastel Shades. A very fine pastel mixture of pastel lavender and blue shades.

***Mixture.** A complete mixture of all above and many intermediate shades. A supremely fine complete mixture of Hybrid Delphinium. Prices on above FIVE ONLY each: Tr. pkt., \$1.00; ⅛ oz., \$2.00; ¼ oz., \$3.50; 1 oz., \$12.00.

Guinevere Series. Very fine light pink-lavender with white bee. Tr. pkt., \$1.25; ⅛ oz., \$2.50; ¼ oz., \$4.00; 1 oz., \$14.00.



Specimens of the new Giant Pacific Hybrid strain.

King Arthur Series. (New). Royal violet with white bee. Exceptional for flower size. Tr. pkt., \$1.25; ⅛ oz., \$2.50; ¼ oz., \$4.00; 1 oz., \$14.00.

Summer Skies Series (New). Light blue with an attractively contrasting white bee. Excellent form. Tr. pkt., \$1.25; ⅛ oz., \$2.50; ¼ oz., \$4.00; 1 oz., \$14.00.

***Clear White.** Excepting possibly the new Galahad Series listed above, the finest clear white Delphinium available from seed. Very large, clear, white flowers, double and semi-double set on long spikes. Forces very well. Tr. pkt., \$1.25; ⅛ oz., \$2.50; ¼ oz., \$4.00; 1 oz., \$14.00.

OTHER VARIETIES

***Belladonna Improved.** A carefully reselected strain of this standard light blue. Tr. pkt., 30c; ¼ oz., 65c; 1 oz., \$2.25; 1 lb., \$24.00.

***Lamartine.** Fairly deep, extra bright marine-blue. An outstanding strain for color and excellent cut flower habit. Tr. pkt., 50c; ¼ oz., \$1.25; 1 oz., \$4.00.

Bellamosum Improved. A reselected strain. Tr. pkt., 30c; ¼ oz., 65c; 1 oz., \$2.25; 1 lb., \$24.00.

Belladonna. The original or regular strain. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.60.

***Blackmore and Langdon Hybrids.** A fine free flowering long-stemmed Hybrid strain for cutting. Tr. pkt., 50c; ¼ oz., 90c; 1 oz., \$3.00; 4 ozs., \$9.00.

Wrexham or Hollyhock Strain. Extra large tapering spikes. Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$5.00.

Gold Medal Hybrids. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

BALL NON-BRANCHING STOCKS

Our Great Specialty!



Our 1940 Mother's Day crop. Seed sown January 15. Minimum temperatures 48-50 degrees. Slowly but surely this long stemmed, large flowered class is replacing the branching kind for cut flower purposes.

BALL NON-BRANCHING STOCKS

In this class of Stocks we have another specialty that is gaining in favor every season. Easy to explain when we consider their long graceful spikes, rich odor and the complete color line we have added to this class since we started to work on them 14 years ago. All but one of our complete list of these Stocks were originated or greatly improved by us.

If planted in fresh or sterilized soil, given plenty air and a moderate or cool temperature, there is nothing easier to grow. But in unsterilized greenhouse soil, they are susceptible to a form of black stem rot that sometimes carries

them off badly. Considerable further information on growing Stocks including what we have found out about increasing the proportion of doubles, will be found in our Ball Red Book (30c) and our monthly "Grower Talks" 30c per annum or 2 years for 50c.

We will start the season with a fair seed supply, but if our European growers continue blocked from us, and the excessive rains hurt the California harvest, this seed may not be plentiful.

Also note that we do not send out any lots of non-branching Stock seed that does not germinate for us at least 10,000 seedlings per ounce.

NOVELTIES FOR 1941

No. 22 Ball Supreme (New). Easily the choicest rose pink. The shade is between our No. 11 and 14 or medium dark, with enuf pearl or apricot shading under spring conditions to make it distinct. Also extra long stemmed with double percentage around 62-64. BALL SUPREME suggests the variety LaFrance in color but is some longer stemmed and with better double percentage. Can't promise more than \$1.00 packet.

No. 20 Ball Apricot. Sent out last season. Clear apricot or light buff pink. Identical in color with Bismarck Chamois. A choice novelty color. Sept. 1.

No. 23 Pastel Lavender (New). A pleasing light pastel lavender selection from our regular Ball Lavender. Same fine spike, habit and percentage. Ready Sept. 1.

No. 21 Ball Purple (New). Clear fairly dark purple and quite large flowered. There is life and brightness in this rich color that we are certain will give the variety real cut flower value. Ready Sept. 1 in Trade Packets only.

Prices on above **Non-Branching** varieties as follows:
 $\frac{1}{2}$ Tr. pkt., 60c; Tr. pkt. (about 1,200 seeds), \$1.00;
 $\frac{1}{4}$ oz., \$2.50; 1 oz., \$9.00.

BALL NON-BRANCHING STOCKS—(Continued)

16,000 seeds per oz.

Order by name and number to avoid possible errors.

Prices on following Non-Branching varieties as follows (except as noted): 1/2 Tr. pkt., 60c; Tr. pkt. (about 1,200 seeds), \$1.00; 1/4 oz., \$2.50; 1 oz., \$9.00.

WHITES

No. 16 Ball White Improved—Medium Tall. This we find our best pure white. It will average perhaps 6" shorter in stem than our No. 15 White but the flowers are closer spaced on the stem, making the finished spike heavier and more effective than No. 15.

No. 15 Ball White Improved. Pure white, not only are the flowers not so well spaced on the stem as is No. 16 but it is a week to ten days later.

No. 2 Ball White—Tall. This is our original long stemmed faintly tinged BALL WHITE. Prefer No. 16.

No. 2 Ball White—Medium Tall. Same as No. 2 but some shorter. Prefer No. 16.

No. 5 Ball White Extra Dwarf. A new and quite different type of Stock for pot culture. Dependably under 15 inches; produces one heavy compact spike resembling a white Hyacinth which it might well replace this season. Not suitable for cut flowers. Ready Sept. 1.

Gardenia. Under our conditions we find no particular value in this variety, but we are in position to care for the occasional calls for it with seed grown by the originator. Tr. pkt., \$1.25; 1/8 oz., \$2.50; 1/4 oz., \$4.50; 1/2 oz., \$8.00; 1 oz., \$15.00.

VARIOUS COLORS

No. 6 American Beauty. True deep American Beauty rose. A deep rich color.

No. 8 Ruby. Long stemmed, rich crimson red. Fine habit and attractive color but for market should be grown in limited quantities.

No. 17 Gold Standard. One of our recent developments in the non-branching class. All the double flowers are deep ivory yellow, while some of the singles will be white. Long stemmed with a fair percentage of doubles. Quite generally considered an attractive novelty color.

No. 10 Mixture. This is prepared by us with the best cut flower colors in proportions generally wanted, largely white, lilac lavender and rose pink. But it is practically impossible to take a certain number of seeds from a mixture and get the same proportions that were used in making it up.

SEE PAGE 10 FOR BRANCHING STOCKS

LAVENDERS AND BLUES

No. 3 Ball Blue. This is our mauve blue selection from Lilac Lavender. From its parent it inherits a high percentage of doubles along with other Lilac Lavender habits. We find it a fairly strong commercial color.

***No. 1 Lilac Lavender.** Rich lilac lavender, strictly non-branching, exceptionally high percentage of doubles. Our first introduction in this class and still the most popular. Fine heavy spikes.

ROSE AND PINK SHADES

No. 14 Ball Rose Pink. Attractive dark rose, long stemmed but about 10 days later than our No. 11. Sold out until Sept. 1. Suggest our New No. 22 Ball Supreme as a suitable substitute.

No. 11 Ball Pink. Light or medium rose pink, about the shade of Bismarck Rose. Excellent commercial color and fairly long stemmed. Tr. pkts., only until Sept.

No. 9 Chamois Pink. This is a choice golden rose shade of pink. We now have this variety dependably up to 58-60% double. Early flowering and a choice color.

No. 7 Malmaison Pink. Blush pink and long stemmed. Produces 1-3 breaks from about the base of the flower spike, but they are easily rubbed out.



LIGHTING STOCKS AT WEST CHICAGO

We find that lighting for an Xmas crop must be discontinued when a protracted spell of dark weather sets in. If this isn't done, growth will get drawn and soft. If properly managed, the use of lights means a saving of 10 days—2 weeks on the crop.

BRANCHING STOCKS

This class is usually passed up in most wholesale markets when the longer stemmed and large flowered non-branching are available. But every retail grower should use some of the branching kind for their more freely produced tho shorter stemmed flowers. Growers sometimes space this class closely as the non-branching with some disbudding. This plan produces fairly good long stemmed flowers, but individual flowers are smaller and not so closely spaced as the non-branching.

Giants of California

A newly developed class that improves the Bismarcks in stronger growth which, of course, means more and longer flower stems. The original of this class is the well known Santa Maria that we find the best branching white. While this class doesn't radically improve a good strain of Bismarcks, it clearly should be preferred.

***Pacific.** Fairly dark blue with extra stem and growth; about the color of Bismarck Lilac.

***Yosemite.** About the shade of Bismarck Rose; a strong clear color with extra heavy growth.

***Santa Maria.** Generally accepted as the best branching pure white; distinctly stronger than Bismarck White.

Roselight. Similar to Yosemite, but some stronger growing.

Prices for above Four Varieties:

Tr. pkt., 35c; 1/4 oz., \$1.15; 1 oz., \$4.00.

Mixture. of all colors in this new class.

Tr. pkt., 25c; 1/4 oz., \$1.00; 1 oz., \$3.50.

Improved Bismarcks

With its dependable percentage of doubles this class continues to lead in the branching class.

Antique Copper. Fine copper red.

Apple Blossom. An extra delicate pink; nearly white.

Blood Red. Ruby color.

Buttercup. Deep cream, strong growing.

***Chamois.** Fine clear chamois.

***Elk's Pride.** Rich purple.

Flesh. Delicate shade of Malmaison Pink.

***Golden Ball.** Ivory yellow.

Golden Rose. As named.

***Lavender.** Clear lilac lavender; fine.

***Lilac.** Bright deep lilac-blue.

***Rose.** Fine bright rose pink.

***Shasta.** New giant white.

White. Good clear white.

Formula Mixture of above colors.

Prices EACH: Tr. pkt., 35c; 1/4 oz.,

\$1.00; 1 oz., \$3.00.

Ten Week

Dwarf, compact, and early; used for bedding and pot plants.

Blood-Red

Canary-Yellow

Carmine-Pink

Deep Rose

Prices EACH: Tr. pkt., 25c; 1/4 oz., 50c;

1 oz., \$1.75.

Lavender

Purple

White

Formula Mixture

Perpetual Branching

(Giant Perfection)

Habit similar to Bismarcks, but not quite so tall.

***Empress Augusta Victoria.** Fine silver lilac.

Heatham Beauty. Terra-cotta or golden rose.

Rose. A clear even shade.

Snowdrift. Clear White.

Prices EACH: Tr. pkt., 25c; 1/4 oz.,

60c; 1 oz., \$2.25.

Mixture of above. Tr. pkt., 25c; 1/4 oz.,

50c; 1 oz., \$1.75.

Beauty of Nice

Compact like a Ten Week but not quite so dwarf.

Aurora. Golden Buff.

Flesh Pink. (*Beauty of Nice*). Flesh or Malmaison Pink.

Cote d'Azure. Light lavender-blue.

Mont Blanc. Clear extra early white.

Queen Alexandra. Rosy lilac; fine.

Prices EACH: Tr. pkt., 25c; 1/4 oz., 60c;

1 oz., \$2.25.

Mixture of above. Tr. pkt., 25c; 1/4 oz.,

50c; 1 oz., \$1.75.

ANNUAL LARKSPUR

Climatic conditions in California are so favorable for the production of Larkspur seed that we depend on that state for practically all of it. As is pretty well known, the state has been rained out almost daily thru the past mid-winter, interfering with the timely sowing of a number of items including Larkspur. While we have definite prospects of some seed, we can hardly hope for a full crop. Also harvest or deliveries will probably be later than usual. Be assured that everything possible is being done to produce a crop of this seed.

Base Branching or Imperial Varieties

The preferred type for cut flowers.

NOVELTIES

Lilac King. (New) A distinctive new lavender. A shade lighter than Sweet Lavender and with heavily base-branching habit. Tr. pkt., 35c; 1/4 oz., 75c; 1 oz., \$2.50.

Coral King. (New) Pleasing soft coral rose. Flowers quite large on well formed spikes. Tr. pkt., 25c; 1/4 oz., 35c; 1 oz., \$1.00; 1 lb., \$10.00.

White Cockade. (New) An extra large flowered fully double pure white. Tall strong habit. Tr. pkt., 25c; 1/4 oz., 35c; 1 oz., \$1.00; 1 lb., \$10.00.

***Blue Bell.** Clear mid-blue; excellent.

***Blue Spire.** Strong deep violet blue.

Carmine King. Carmine-rose.

Daintiness. Rather light lavender shade; we prefer Sweet Lavender.

Dazzler. Fine large carmine-rose; more uniformly deep carmine color than Carmine King.

Exquisite Pink Improved. Fine soft pink.

***Gloria Improved.** Bright rose-pink; the preferred rose.

Lilac Queen. Rich lilac-lavender.

Los Angeles Improved. Bright salmon-rose; fine habit.

Miss California. Pink shaded salmon.

***Rosalind.** Rose with light salmon diffusion.

***Sweet Lavender.** Clear, even lavender color; fine strong spikes and large double flowers.

***White King.** Finest white; large flowered and pure color.

White Spire. Good white.

Formula Mixture. Specially blended of good cut flower colors in above list.

Prices, unless indicated otherwise, on all above varieties, and Formula Mixture: Tr. pkt., 25c; 1/4 oz., 35c; 1/2 oz., 60c; 1 oz., \$1.00; 1 lb., \$10.00. 4 ozs., of any one variety at lb. rate.

Stock Flowered Varieties

Tempest. (New) Brilliant deep blue. Flowers quite large and fully double. Tr. pkt., 20c; 1 oz., 50c; 1 lb., \$5.00.

Dark Blue. A rather deep but bright shade.

***Lilac Supreme.** A bright strong shade of lilac; excellent.

Lilac Imp. Pleasing shade of lilac.

Los Angeles. Bright salmon-rose.

***Mauve Beauty.** Pure medium lavender mauve.

***Rosamond.** Deep rose; excellent.

Rose Queen. Very attractive rose-pink.

Sky Blue. Good light blue. **White.** Prefer White King.

Formula Mixture of the above.

Prices, unless indicated otherwise, on all above varieties and Formula Mixture: Tr. pkt., 20c; 1/2 oz., 30c; 1 oz., 50c; 1 lb., \$5.00. 4 ozs., of any variety at pound rate.

Giant Hyacinth-Flowered

Produces one long non-branching spike. Fine for long-stemmed cut flower purposes. Germination somewhat uncertain.

Dark Blue, **Lilac,** **Pink,** **Purple,** **White.**

Each: Tr. pkt., 25c; 1/4 oz., 30c; 1/2 oz., 50c; 1 oz., 80c; 1 lb.,

\$8.00. 4 ozs. of any one variety at lb. rate.

Mixed: Tr. pkt., 15c; 1 oz., 60c; 1 lb., \$6.00.

Dwarf Emperor Type

Mixture of all colors in this type. Less than half the height of the regular cut flower kinds and much used for bedding. Tr. pkt., 20c; 1/2 oz., 35c; 1 oz., 60c.

BALL CALENDULA

(About 3000 seeds per oz.)

Originated and introduced by us 21 years ago.

Some strong arguments can be put up for Calendula. Among them are: easily and economically grown, never lose their warm glowing color under the darkest winter conditions and are in full crop during December and January when flowers are usually valuable. The strong, long stemmed growth of the Ball or cut flower type will droop or wilt if not grown cool—40-45 nights. This temperature will not only prevent wilting by keeping them hard, but it is more economical than a higher one. Also—the lower temperatures will maintain their full doubleness. The higher the temperature, the more they will tend to come single. The same plants that single out to one row of petals during mid-summer will come back with full double flowers in the lower temperature of fall.

Free ventilation on every possible occasion and keeping them rather on the dry side during the darkest months are further important points. Don't water until the lower soil needs it, then soak and let 'em alone. They will also be hard and large flowered with some higher temperature if grown on a raised bed, but they will not be so long stemmed as they get in deep soil. For the mid-winter crop, we sow about August 10; about the latitude of St. Louis, we suggest delaying a week or 10 days because of the more prolonged summer that weakens them.

Thru many single plant selections made annually in our greenhouses and thru the growing of our own stock seed, we are doing all that can be done to maintain and improve our strains of BALL CALENDULA.

NOTE! Our strains of Ball Calendula available only in our sealed packets for your protection.



Geo. Ball, Sr. with a fine stand of Ball Calendula. Grown for the Christmas market. One of the few greenhouse plants unaffected by dark weather. Calendula have been a popular specialty of ours for two decades.

FORCING VARIETIES

Prices (EXCEPT MIXTURES): Tr. pkt., 40c; 1/4 oz., 60c; 1 oz., \$2.00; 2 ozs., \$3.50; 4 ozs., \$6.50; 1 lb., \$20.00.

Prices on weight lots will be accepted on 2 or more varieties together. For instance, on 1/4 oz. each of 4 varieties, instead of allowing 60c each, the ounce price of \$2.00 will be accepted.

***Ball Improved Long Orange.** Attractive bright golden orange with light eye; a clearly lighter color than our regular Long Orange; outstandingly long stemmed and large flowered.

Ball Long Orange. The original deep intense orange with light center. Long stemmed and large flowered.

Ball Sensation. Similar to our Ball Long Orange.

***Ball Masterpiece.** Long stemmed clear deep orange with brown center. Attractively contrasting colors and free flowering habit.

Ball Supreme. Similar to Masterpiece, but not quite so deep a color and as large a flower. Outstanding for free flowering habit.

***Ball Gold.** Extra long stemmed, large deep golden yellow; light eye. Nice.

***Ball Lemon Queen.** Deep lemon yellow with attractive brown eye; our most popular yellow.

Ball Apricot. Light straw or buff color with showy dark center; some color variation but attractive.

Campfire (Sensation). An excellent strain of long orange; fine deep orange, good sized flower and valuable for forcing.

Ball Formula Mixture. Carefully made up of the above varieties with fully half orange. Intended for retail growers.

Ball Art Shades Mixture. Many original and interesting color variations, many being new in Calendula and hard to "true up".

Prices on BOTH above MIXTURES: Tr. pkt., 35c; 1/4 oz., 50c; 1 oz., \$1.50.

CALENDULA FOR BEDDING

The following varieties are not as long stemmed or large flowered as the above and are used for bedding work in favorable climates.

***Orange Shaggy.** Petal tips of this bright orange variety are finely fringed giving it a distinctive appearance. Tr. pkt., 15c; 1/4 oz., 25c; 1 oz., 65c.

***Apricot Queen.** An apricot-buff with petal tips attractively flecked orange. Tr. pkt., 20c; 1/4 oz., 35c; 1 oz., \$1.10.

Frilled Beauty. New deep orange, attractively frilled. Tr. pkt., 15c; 1/4 oz., 25c; 1 oz., 75c.

Sunshine. Chrysantha. Loose petaled bright yellow; upright growth with fair stems. Tr. pkt., 15c; 1/4 oz., 25c; 1 oz., 75c.

Prices on the following, each: Tr. pkt., 15c; 1/4 oz., 50c; 1 oz., \$1.75; 1 lb., \$5.25.

Radio. Bright orange, quilled petals, quite attractive.

Radio Golden Beam. Clear yellow Radio.

Orange King. Dark centered deep orange; for bedding.

Lemon Queen. Light lemon yellow; somewhat taller in growth.

Ball Bedding Mixture. Well proportioned mixture.

WINTER PEAS (350 Seeds per oz.)

If Winter Peas are successfully grown, they will be found a profitable crop. Clean soil, and a cool, well ventilated house are of prime importance. For the mid-winter crop another necessary point is matured or somewhat hardened growth, for if soft, buds will drop. To get the growth hardened, sow early in fresh soil; if not over watered and with some shade, they will stand 2½ months of our summer weather, after which they will be hardened into producing flowers freely, but not on long stems. For this crop, we sow about June 15-20. If we sow around August 1, they usually go into winter too soft to hold buds freely until January. A September start usually gets in fairly well for Valentine's Day and to make the big shows around April 1, we start October 1 and run rather cold until buds are set. For sowing after October, we strongly recommend the new intermediate or Spring flowering class. This group will be 10 days or 2 weeks later flowering than most mid-winter varieties, but their longer stems, stronger growth and longer spring flowering period will more than balance this. But don't start spring flowering kind before October for they will not flower under any circumstances until mid-March with us. In most marketing centers, Peas are not so heavily called for as formerly.

NOVELTIES

Magic. (New) Fine new orchid lavender. Outstanding point in our trials was extremely early and free blooming habit and very large blooms. Color slightly deeper than Harmony and stem medium. ½ oz., 75c; 1 oz., \$1.40; 4 ozs., \$5.50.

Fiesta (New). Brilliant orange cerise with long heavy stem. Color is really almost an orange-scarlet and is quite sunproof. Finest sunproof orange. ½ oz., 75c; 1 oz., \$1.40; 4 ozs., \$5.50.

Ball Salmon (New). See 12 Best.

Gardenia. Glistening white on quite exceptionally long stems. We find Gardenia very long stemmed and strong growing but not a true winter sort, but easily the finest spring white. ½ oz., 40c; 1 oz., 60c; 4 ozs., \$1.75; 1 lb., \$6.00.

Tops. Fine salmon rose; produces many 5's and good long stems. ½ oz., 40c; 1 oz., 60c; 4 ozs., \$1.75; 1 lb., \$6.00.

Sparks. A bright poppy scarlet. Flowers quite large, good stem, and holds its color well thru dark winter weather. ½ oz., 40c; 1 oz., 60c; 4 ozs., \$1.75; 1 lb., \$6.00.

Rhumba. A pleasing coral or salmon cerise shade that does not wash out in mid-winter. Large flowers, heavily duplexed and ruffled, and a free producer of 4's. ½ oz., 40c; 1 oz., 60c; 4 ozs., \$1.75; 1 lb., \$6.00.

OUR 12 BEST VARIETIES

Ball Rose Supreme. This greatly improves our Ball Rose Improved in being larger flowered, clearer and better dark rose color and longer stemmed. While that is saying considerable, it clearly describes the difference. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Laddie Improved. The best available clear, fairly light rose pink, with nice size and long stemmed. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Mrs. Hoover. While this old favorite does not belong to the large flowered class, the stems are long and growth strong. Best available for mid-winter in this color. For spring flowering, use the semi-spring flowering variety Tahoe. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Ball Salmon. Fairly deep salmon or coral pink, much deeper and more effective than Daphne but not extra large flowering. One of the most attractive novelty colors. On the list and deep enuf to be attractive under winter conditions that badly wash out Daphne. ½ oz., 35c; 1 oz., 50c; 4 ozs., \$1.50; 1 lb., \$5.00.



Gravel grown spring peas. Sown Nov. 1, photographed April 16. Variety: Ball Rose Queen.

Twilight. The finest large clear long stemmed lavender. We are certain that this will entirely replace Harmony, but we regret that the crop is short because of the heavy California rains. We can offer it in 1 oz. lots only at ½ oz., 40c; 1 oz., 60c. New crop ready in August.

Harmony. For many years the standard lavender and it continues a good one. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Ball White. The largest flowered, longest stemmed white seeded pure white. It is especially important to sow white seeded varieties in moist soil and not give a drop of water until thru the ground. During summer cover row with a board to avoid excessive surface drying. ½ oz., 25c; 1 oz., 35c; 4 ozs., \$1.20; 1 lb., \$4.00.

Princess Blue. Beautiful light lavender blue. Long stemmed and large flowered. ½ oz., 30c; 1 oz., 40c; 4 ozs., \$1.25; 1 lb., \$4.75.

Ball Orange Improved. While this color is not extensively wanted, this variety is easily the best clear orange with longer stems than our original stock. ½ oz., 25c; 1 oz., 35c; 4 ozs., \$1.20; 1 lb., \$4.00.

Triumph. Long stemmed rich lilac mauve. This is a first class commercial color and is wanted in all markets. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

Treasure Island. This golden orange red has taken well most everywhere. Not only is the color attractive but it belongs to the new large flowered long stemmed class. ½ oz., 35c; 1 oz., 50c; 4 ozs., \$1.50; 1 lb., \$5.00.

Hiawatha. Extra large flowered, fairly deep rose. The color is deep enuf to be very attractive under mid-winter conditions and with plenty of sun becomes a glowing deep rose. ½ oz., 35c; 1 oz., 50c; 4 ozs., \$1.50; 1 lb., \$5.00.

12 Best Mixture. A formula mixture of the above varieties only. ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

WINTER SWEET PEAS—(Continued)

GENERAL LIST (Except 12 Best)

American Beauty. Fine American Beauty rose.
Amethyst. Rich bright purple.
Annie Laurie. Bright rose-pink.
Apollo. Salmon-cerise; fine for spring.
Attraction. Rich long-stemmed salmon-rose.
Aurora. Orange-scarlet striped.
***Bacchus.** Extra deep maroon-purple; large flowered.
***Ball Rose Improved.** Standard free flowering bright rose.
Ball Rose Queen. Very fine extra strong growing rose pink.
 One ounce only; ready Aug. 15.
***Blue Danube.** A showy deep clear blue; fine.
***Boon.** Deep salmon-rose on cream; large flowered.
***Bridesmaid.** Delightful silvery pink; large flowered.
Bright Light. Vivid orange-scarlet.
Chevalier. Dark rose.
***Cinderella.** Extra large flowered light blue; choice.
Columbia. Rose and white bicolor.
***Daphne.** Soft salmon-pink on cream; fine stem and flower size.
Eileen. Rich Begonia rose.
Eleanor Blue. Nice light blue for spring flowering.
Flamingo. Orange-salmon; long stemmed.
Fragrance. Fine lavender for spring blooming.
Giant Rose. Extra large rose; medium stem.
Grenadier. Poppy scarlet.
Harlequin. Chocolate bicolor; attractive novelty.
***Hope.** Fine white; black-seeded and easy to germinate.
Jeanne Mamitsch. Clear Rose, long stems.
***Josie.** Longest stemmed clear rose-pink.
Majestic Rose. Fine large flowered heavy stemmed rose-pink.

Maroon Prince. Dark maroon, rather heavy.
Michigan. Large lavender.
Mrs. Holscher. Very large rose-pink.
Mrs. Kerr. Salmon.
Oriental. Black-seeded cream.
***Pride.** Extra long-stemmed brilliant cerise.
Prosperity. Soft glowing rose-cream.
Red Bird. Crimson-red.
***Redwood.** Extra large flowered deep crimson.
Sequoia. Quite large flowered attractive salmon-rose.
Signal Red. (New). The finest red in early peas. Our trials show this much brighter than Pride. ½ oz., 40c; 1 oz., 60c; 4 ozs., \$1.75; 1 lb., \$6.00.
Snowstorm. White-seeded white.
Success. Extra bright deep rose-pink.
***Sunproof Orange (New).** Good large flower; some cerise shading.
Sunray. Light cerise, fine long stem.
Tahoe. Fine dark blue for spring; not extra early.
***Top Hat.** Deep bright violet-blue; fine growth and strong color.
Vivian. Unusually long-stemmed deep carmine-rose.
***White Harmony.** Longest stemmed black-seeded white.
Zvolanek's Rose. Rose; prefer Laddie.

Any Above Priced At: ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50. Except where noted.

Ball Early Mixture. A well balanced mixture of the above colors. ½ oz., 15c; 1 oz., 25c; 4 ozs., 85c; 1 lb., \$3.25.

LATE OR SUMMER PEAS

In many sections, particularly south of the Ohio River, the late class is sown outdoors late in fall. In well-drained soil and with some covering, they winter over and have a fine start for a June crop. This class is also sometimes sown with indoor Earlies started late or after 'Mums. The Lates do not climb up with the Earlies, branching freely until the Earlies begin to give out after which the Lates take their place.

THE TWELVE BEST

Our choice of the following is based on our experience growing them outdoors as well as the general demand for them.

Flagship. Deep brilliant navy blue; strong robust flowers and growth.
Snow White. A solid white, strong grower with heavy vines and stems. Black seeded.
Sweet Afton. (New). The strongest growing largest stemmed variety in our trials this summer. Color a clear bright pink. 1 oz., 50c; 4 ozs., \$1.60; 1 lb., \$5.00.
Red Rover. Strong growing red; about corresponds to Redwood in the earlies.
Pinkie. Finest rose-pink; large flowered and long stemmed and a heavy producer.
Gigantic. Finest late white; extra large flowered and many duplexed; black seeded.
Ball Shrimp Pink. A delicate shade of shrimp-pink.

Welcome. Brilliant sunproof scarlet; large flowered.
King Lavender. Even finer than Highlander according to our trials this season. Exceptional growth and stem.
Windsor Blue. Easily the finest blue available today. It clearly beats Chinese Blue both in stem and growth.
Crony. A pleasing intense coral or salmon rose with fine stem; large flowers.
Headlight. Fine sunproof orange-scarlet; extra for stem and bright color.
12 Best Mixture. A mixture of the above "All the Best" varieties of Late Peas.
Prices On All Above except Sweet Afton. Each: 1 oz., 20c; 4 ozs., 60c; 1 lb., \$1.75.

THE NEW SPRING FLOWERING CLASS

Do not sow this class before November 1 and up to February. If sown in August, they get up 12-15 ft. and will flower very little earlier than a December sowing that will flower around 6 ft. These figures are for ground beds. This class produces longer stems and will last longer than will the true winter flowering class. The following are all Ferry Morse varieties. The past spring we flowered trials of all available, resulting in the selection of the following as being the preferred ones for cut flower purposes.

NOVELTIES

***Black Seeded White.** Extra fine pure white. Outstandingly large frilled flower, heavy stem and many 4's.
***Navy Blue.** Brilliant deep shade. Typical spring flowering vigor in stem, flowers and growth.
Light Blue. Pleasing soft Princess Blue shade. Flowers nicely ruffled.
Deep Rose Cerise. A pleasing bright cerise rose on salmon. Extra for stem and lots of 4's.
Cream Pink. A soft light cream pink. Extra long stem.
Each above new Spring Flowering varieties priced as follows: ½ oz., 75c; 1 oz., \$1.40; 4 ozs., \$5.50.

STANDARD VARIETIES

Mauve. Of fine spring flowering habit; a bright mauve about the shade of early Triumph. ½ oz., 50c; 1 oz., 90c; 4 ozs., \$3.00; 1 lb., \$10.00.
Blue. Fairly deep; about like Mrs. Hoover.
Lavender. A good even shade.
Rose Pink. About the shade of Giant Rose in the earlies.
Mixture of the above. EACH above except Mauve: ½ oz., 40c; 1 oz., 60c; 4 ozs., \$1.75; 1 lb., \$6.00.

PRIMULAS

A wide and valuable class of perennials and annuals for the greenhouse and perennial garden. Seed germination of some in both classes is occasionally irregular. Most of the perennial kinds germinate better if sown in flats or a frame in the fall and left frozen over winter. Much Primula seed in both classes has regularly come to us from Europe, so some varieties will become difficult to supply.

PRIMULA OBCONICA

4000 seeds per $\frac{1}{2}$ oz.

Most showy of all pot plants and the demand for this class seems increasing tho some find contact with them has an irritating skin effect. A June sowing of Obconicas will, in a 48-50 degree temperature, make nice four and five inch pot flowering plants by mid-winter. For later and smaller plants, sowings are frequently made in July and August. We have a fair supply of all varieties on hand of '40 crop.

All our Obconica seed is furnished in sealed glass tubes to assure freshness and good germination; no extra charge.

Better Days. Good deep carmine-red; compact habit.

Coerulea. Fairly dark blue.

***Fasbender's Red.** Large deep crimson.

Lachsrosa. Large bright rose with attractive salmon shading; nice.

Mohnstein's Atrosanguinea. Dark red.

Mohnstein's Dark Red. Well known dark red.

***Mneller's Berlin Rose.** Bright clear rose.

Mneller's Rosea. Good rose.

Salmon Queen. Salmon or coral-rose.

White. A popular strain.

Any above priced at: Tr. pkt., (1/128 oz.) \$1.10; $\frac{1}{4}$ oz., \$2.00; $\frac{1}{2}$ oz., \$3.75.

Mixture. Carefully blended mixture of above colors. Tr. pkt., (1/128 oz.), 60c; $\frac{1}{4}$ oz., \$1.00; $\frac{1}{2}$ oz., \$1.75.

Portland Beauty. Double flowering rose-pink; excellent. Tr. pkt., \$1.50; $\frac{1}{4}$ oz., \$3.50.

PRIMULA MALACOIDES

(12,000 seeds per $\frac{1}{2}$ oz.)

An indispensable class for any retail business. Tho of rapid growth, specialists sow in May for 6-8" pan or pot specimens, but for the smaller and more popular sizes, sowings are made up to January. Two inch pot Malacoides are particularly attractive in combinations.

***Rosea Superba.** Finest extra large flowered and compact bright orchid rose. We find this variety clearly superior in its color class. Tr. pkt., 50c; $\frac{1}{2}$ oz., \$1.25; $\frac{1}{4}$ oz., \$2.00.

Baby Rose. Extra good bright rose; compact habit and one of the best. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.75; $\frac{1}{2}$ oz., \$2.75.

***Riverside.** Very attractive bright rose with salmon, good habit. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.75; $\frac{1}{2}$ oz., \$2.75.

Brilliancy. Attractive crimson red. Outstanding color in combinations. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.75; $\frac{1}{2}$ oz., \$2.75.

Baby Alba. Good size, clear white. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.50.

Mixture. Carefully balanced formula mixture of above varieties. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.50; $\frac{1}{2}$ oz., \$2.50.

ERIKSSON'S NEW STRAINS. (*Originator's Seed*). We supply the following direct from the originator, Mr. Eriksson. We carefully inspect his seed stock and feel very sure that his reputation with this line is well earned.

Riverside Red Rose (New). A brilliant red rose of very even color.

Eriksson's White Giant (New). Exceptionally strong grower adapted to combinations in place of Hyacinths. Real pure white.

Glory of Riverside Improved. True rose pink; a strong grower and a real pot plant variety especially for 6-7 in. sizes.

Eriksson's New Giant. Color similar to Glory of Riverside, very robust habit with flowers up to 1½ inches. Somewhat later blooming, assuring a longer Primula season.

Eriksson's Deep Red (Brilliancy). Flowers open lavender, changing to brilliant red. Attractive and unusual combination.

Above each: 500 seeds \$1.00; 2000 seeds, \$3.00; 6000 seeds \$8.00.



The demand for white flowers is reflected in the popularity of this color in Malacoides Primula.

Eriksson's Pure White (Improved). A real improvement in white Malacoides. Flowers profusely on numerous stems; germination good.

***New Baby Imp. (New).** Outstanding glowing deep pink with slight salmon cast. Individual in color, large flowered and a heavy producer.

Baby Rose. A good deep pink with free flowering habit.

Eriksson's Special Mixture. A choice selection of the above varieties.

Above four varieties each: 800 seeds, \$1.00; 2000 seeds, \$2.00; 6000 seeds, \$5.00.

CHINESE PRIMULA

(18,000 seeds per oz.)

This is a popular class with many retail growers, but wholesale growers find they shatter some when much handling or shipping is necessary. Sowing early in June is necessary to produce strong 5 in. pot plants for Xmas. Seed of this class doesn't usually germinate over 50-60%.

***Dazzler.** Vivid orange red. Outstanding color in this class. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.50.

***Chiswick Red.** Rich bright red.

Coerulea. Very excellent light blue.

Defiance. Deep red, dark center; fine.

Duchess. White with attractive Tyrian rose center.

Gigantea Alba. Extra large clear white.

Heath Rose. (New). Splendid bright rose-pink; fine compact habit.

Rose Queen. Large bright carmine rose. Excellent.

Special Mixture. Carefully balanced mixture of above. All above except Dazzler priced at: Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.00; $\frac{1}{2}$ oz., \$3.75.

Don't pass up the value of the several so-called Hardy Primulas: Kewensis, Kleyni, and Veris strain such as Colossea for spring forcing. They are choice and colorful. Complete listing in perennial pages. (Kewensis below.)

Primula Kewensis (Not a Chinese Primula). Deep yellow winter flowering pot plant. 10 to 12 in., nice. Tr. pkt., 50c; $\frac{1}{2}$ oz., \$1.25.

BEGONIAS

(1-2000 seedlings per tr. pkt.)

SEMPERFLORENS OR FIBROUS ROOTED

Some of this extremely fine seed is frequently not mature, and much of it is smothered in sowing thru over covering. No cover whatsoever should be used on such seed, depending for germination on washing it into the soil some thru fine spraying. This calls for careful protection of the seed bed surface to prevent destroying the sprouting seed. This class is especially valuable as pot plants and for summer combinations or porch boxes because of their preference for some sun protection. A June sowing grows into nice 2-3 in. flowering pot plants for Xmas. The best strains of Begonia seed come largely from Europe which leave supplies irregular. At present we have fairly good supplies of nearly all varieties we list.

RED AND PINK PEARL

Supplies of these uniformly dwarf European strains are very difficult to get. The variety ADELINÉ will be found practically identical to Pink Pearl, and it will be difficult to distinguish between KING OF THE REDS or Luminosa Compacta and Red Pearl.

***Adeline.** Extra dwarf small but free flowering bright pink. Closely resembles the distinctly compact habit and color of Pink Pearl. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.25; $\frac{1}{2}$ oz., \$4.00.

Albert Martin. Large bright carmine. Tr. pkt., 50c; $\frac{1}{2}$ oz., \$1.25.

Carmen. The original bronze-leaved Begonia. Flowers a bright rose-pink contrasting nicely with the dark foliage. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.75; $\frac{1}{2}$ oz., \$3.25.

Christmas Cheer. Fairly dwarf crimson scarlet. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.75; $\frac{1}{2}$ oz., \$3.25.

Darling. Bright clear pink under glass, deepening outdoors. Unusually compact habit and very large flowers. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.25; $\frac{1}{2}$ oz., \$4.00.

Elegant. Unusually large soft pink flowers with luxuriant green foliage. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.00; $\frac{1}{2}$ oz., \$3.50.

Essen. Fine bright rose-red with green foliage. Tr. pkt., \$1.00.

***Fire Sea (Blaze of Fire).** Large fiery red with green foliage. Tr. pkt., \$1.00; $\frac{1}{2}$ oz., \$2.00.

Glory of Erfurt. Large bright carmine-rose. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.15; $\frac{1}{2}$ oz., \$2.00.

Gustav Knaake. Salmon-pink, resembling Melior. Tr. pkt., 50c; $\frac{1}{2}$ oz., \$1.50.

***Indian Maid.** Foliage a deep lustrous bronze with richly contrasting scarlet flowers. Outstanding for color effect; good dwarf habit. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.00; $\frac{1}{2}$ oz., \$3.50.

***King of the Reds.** Glowing red flowers, green foliage, and a vigorous but dwarf habit making it valuable for pots or border work. Very similar in color and dwarf compact habit to Red Pearl. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.00; $\frac{1}{2}$ oz., \$3.85.

***Lightning.** Strikingly large carmine-scarlet flowers; deep green foliage. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.50; $\frac{1}{2}$ oz., \$2.60.

***Luminosa.** Deep scarlet, reddish brown foliage; fine. Tr. pkt., \$1.00; $\frac{1}{2}$ oz., \$1.75; $\frac{1}{4}$ oz., \$3.25.

Luminosa Compacta. Very dwarf and restricted; rather small but extra free flowering pot plant strain. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.00; $\frac{1}{2}$ oz., \$3.50.

Mignon. Brilliant salmon-scarlet; semi-dwarf. Tr. pkt., 50c; $\frac{1}{2}$ oz., \$1.75.

Prima Donna. Light rose-pink shading to carmine outdoors; medium dwarf. Tr. pkt., \$1.00; $\frac{1}{2}$ oz., \$2.15.

***Radio.** Quite large flowered carmine-scarlet. Tr. pkt., \$1.00; $\frac{1}{2}$ oz., \$2.25.



Some habit! The variety is King of the Reds, typical of the new bushy compact growth of such other sorts as Adeline, Luminosa Compacta etc.

***Scandinavia.** New large flowered pot plant strain; good bushy habit with attractive dark green foliage; attractive shade of pink. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.25.

Scarlet Queen. Large scarlet; bronze green foliage. Tr. pkt., 50c; $\frac{1}{2}$ oz., \$1.50.

Vernon. Deep blood-red and dark leaved; medium dwarf. Tr. pkt., 35c; $\frac{1}{4}$ oz., 60c.

White Pearl. We offer a particularly choice large flowered strain of this standard white. Tr. pkt., \$1.00; $\frac{1}{2}$ oz., \$2.50.

Mixture. Of all colors in this class. Tr. pkt., 50c; $\frac{1}{2}$ oz., \$1.00.

***Dwarf Sorts Mixed.** A specially prepared formula mixture of such fine extra compact sorts as Adeline, King of The Reds, Luminosa Compacta etc. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.75; $\frac{1}{2}$ oz., \$3.25.

TUBEROUS ROOTED

Where summer temperatures are not excessive, this class is highly attractive and popular as pot plants and bedding in partial shade. Seed of this class is very much an European product.

Multiflora Nana Mixed. Pleasing mixture of small but freely produced double flowers; similar in type to Helen Harms. Tr. pkt., \$1.00; $\frac{1}{128}$ oz., \$2.25.

Narcissus-Flowered. Flowers closely resembling Narcissus and about 3 in. across. Attractive mixture. Tr. pkt., \$1.00; $\frac{1}{128}$ oz., \$4.50.

Large Flowered Single Mixed. Attractive shades of orange, rose, scarlet, etc. Quite large flowered; from 3 to 4 in. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.25.

Large Flowered Double Mixed. Not quite so large as above but fully double flowers. Tr. pkt., \$1.00; $\frac{1}{128}$ oz., \$2.50.

***Lloyd Mixed.** Of graceful pendulous habit. Nice 4 in. plants mature in 6 to 7 months from the sowing of seed. Flowers double, about 2 in., and in shades of scarlet, salmon, and white. Tr. pkt., \$1.00; $\frac{1}{128}$ oz., \$3.00; $\frac{1}{4}$ oz., \$5.00.

Rex Hybrids. Ornamental leaved mixture of Rex Begonias; many unusual variations. Seed is small and must not be covered. 500 seeds, \$1.50; 1,000 seeds, \$2.85.



From right to left are pictured the increasingly popular variety Berlin Market, center, most popular Cremers strain with the smaller Multiflora on left. We have excellent supplies of these varieties.

FINE CINERARIAS

While there may be some difference in the demand for them in some sections, we meet with very few retail growers who do not consider Cinerarias necessary. And for at least the past 50 years it has always been so. This is due to their bright, cheerful coloring as a house plant, and some credit must be given to their ease of growth.

An early June sowing is flowered in 5" pots for Xmas and there is some demand for the crimson reds for this occasion. Our Cineraria trials are sown October 1 and flowered in 4" pots about May 1. This means that sowing in the north can be done any time between the above dates. For mid or late winter and Easter, 5-6" pot plants are produced by sowing during July and early August. Temperature and climate will, of course, influence flowering dates.

While the small flowered compact Cremers type is the strongest seller, the some larger and compact Berlin Market is being increasingly called for, the least popular of the three pictured being the quite dwarf multiflora nana. The Giant Exhibition or Grandiflora type is largely used for conservatories, but the large flowers have some interest for commercial growers as well.

We annually flower trials of strains from all growers.

We supply seed only from the growers' strains that are most even and with the best color balance. This is done regardless of where it comes from.

TWO POPULAR MIXTURES

***No. 1** Cremers and Berlin Market mixed in equal proportions.

No. 2 This contains Cremers 50%; Berlin Market 25%; and Multiflora Nana Mixed 25%.

Each: Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.00.

***Cremers Prize Strain (Reselected Stock).** 6300 s. per $\frac{1}{2}$ oz. Large heads of medium size flowers freely produced in a well balanced mixture of colors. Semi-dwarf habit with small foliage that requires less bench space per plant than some large foliage types. Generally speaking, small flowers hold up better than large ones, a point in favor of the Cremers type. We supply originator's seed if requested. Tr. pkt., \$1.50; $\frac{1}{4}$ oz., \$2.25; $\frac{1}{2}$ oz., \$4.00; $\frac{1}{8}$ oz., \$7.50.

***Berlin Market (Weisseusee Strain).** 3500 s. per $\frac{1}{2}$ oz. Nearly all flowers in this fine strain are light eyed or centered as shown in picture. This gives it a brighter effect than is had in Cremers. The medium large flowers are freely produced as shown. An excellent strain. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.60; $\frac{1}{2}$ oz., \$2.75.

***Siter's Rainbow Strain.** We find this strain some earlier flowering than Cremers, and the color mixture some lighter and to some, more attractive. Flowers seem to average slightly larger. A very good attractive strain. Originator's packets, \$2.00.

Grandiflora Dwarf Mixture (Grandiflora Nana). An excellent large flowered compact strain from Europe. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.75.

Giant Exhibition. (Howard and Smith Strain). Strikingly large flowers in a bright array of colors. Flowers very showy but don't handle well. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.75.

Eriksson's Private Stock. A choice Berlin Market Selection made by Ernst Eriksson, a Chicago pot plant grower. Preferred by some growers. Originator's sealed packets (500 seeds) \$1.00.

BERLIN MARKET STRAIN IN Dark Crimson and Dark Blue.

MULTIFLORA NANA TYPE IN Dark Crimson and Dark Blue.

Both above separate color strains will come about 90% true to colors.

Each Above Separate Colors. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.50.

***Gold Centered Multiflora Nana Mixture.** True Multiflora Nana. This strain is selected for a yellow disc or center that adds to its attractiveness. A fairly good proportion come true to this character. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.75; $\frac{1}{2}$ oz., \$3.25.

GRANDIFLORA VARIETIES IN SEPARATE COLORS.

Azure Blue. Showy clear blue shades; medium large flowers.

Sanguinea. A strong red Grandiflora. An attractive new red shade.

Kermesina. Rich deep red. Of Grandiflora size. Each above: Tr. pkt., 75c; $\frac{1}{4}$ oz., \$2.00.

Gigantea. Dark red with white eye. Attractive color combination. Compact growth. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.00.

VARIOUS TYPES

Stellata or Star Type. This small free flowering strain gets up 2 ft. under favorable growing conditions. Used for pots or cutting. Tr. pkt., 50c; $\frac{1}{2}$ oz., \$1.50.

Plenissima, Double Mixed. Finely rounded, full double flowers about 1 $\frac{1}{2}$ in. in diameter. Of interest as a novelty. Tr. pkt., 50c.

CALCEOLARIAS

(800-1000 seedlings per tr. pkt.)

With the help of a dry spring and much hand labor, we are glad to report good prospects for a crop of our own growing of Calceolaria seed in most varieties. This is especially gratifying because it is enabling us to produce the mixtures or strains our trade demands. We offer our own growing of seed with a greater feeling of confidence than we do foreign supplies at this critical time.

THE MULTIFLORA NANAS

The most popular seed grown class, and because of their small to medium size, the flowers are somewhat more durable than the Grandifloras. The Mixture is used by most growers almost exclusively.

***Multiflora Nana Mixture (Ball Strain).** The original Multiflora nana is lacking in variations, being almost entirely clear, bright red and yellow with a few spotted or Golden Tiger type. We have been working for several years to get this mixture more interesting. The light colors somewhat predominate in our results and practically all are spotted or tigered. This strain will be used exclusively by us for Multiflora nana mixture. New crop seed ready late in June.

Golden Tiger. Golden yellow and attractively spotted.

Indian Prince. Bright, deep scarlet but with some tendency to revert to yellow shades.

Prices on above EACH: Tr. pkt., \$1.00; 1/128 oz., \$2.25; 1/4 oz., \$4.00.

HYBRIDA GRANDIFLORA (Large Flowered varieties)

***Dwarf Tigered and Spotted Mixed.** Uniformly dwarf tigered and spotted mixture. Showy large flowers and attractive colors. Tr. pkt., \$1.00; 1/4 oz., \$2.50; 1/2 oz., \$4.50.

Hybrida Grandiflora Dwarf Mixed. A most distinctive new extra compact large flowered strain. Contains many unusual rose and red shades as well as yellows. Mostly self colors. Tr. pkt., \$1.00; 1/4 oz., \$2.50.

Albert Kent. Flowers golden-yellow with large red blotch on each. Tr. pkt., \$1.00; 1/4 oz., \$2.50.

Albert Kent Hybrids. Intermediate in size of flowers. Very excellent color range. Tr. pkt., \$1.00; 1/4 oz., \$2.00.

***Cloth of Gold.** Medium sized golden-yellow flowers very freely produced; dwarf and very showy. Tr. pkt., \$1.00; 1/4 oz., \$2.25.

Kelway's Perfect Model. We supply originator's seed of this well known strain. Wide range of colors and strong growth. Tr. pkt., \$1.00; 1/4 oz., \$2.25; 1/2 oz., \$4.25.

Tigrina. All flowers attractively tigered or spotted; medium size flowers and fairly tall growth. Tr. pkt., \$1.00; 1/4 oz., \$2.50.

***Grandiflora Mixture** of colors. Tr. pkt., \$1.00; 1/4 oz., \$2.00; 1/2 oz., \$3.50.

Monarch Strain. A strong growing, attractively colored Grandiflora mixture. About ten days later than regular mixtures but very fine. Tr. pkt., \$1.00; 1/4 oz., \$2.25; 1/2 oz., \$4.00.

RUGOSA TYPE

***Flower Cloud.** Bushy, showy specimen plants; flowers not large but very freely produced. Its Rugosa parentage gives it exceptional handling qualities. Tr. pkt., \$1.00; 1/128 oz., \$3.75.

Perennial Hybrids. A very small flowered type used for large exhibition work and for bedding. Tr. pkt., \$1.00.



Four in. pot plants flowered Mother's Day from an October 1 sowing. About three such plants combined in a 6-7" pan would be attractive. On right is the fairly tall Grandiflora Tigrina, the finest large flowered variety, left Dwarf Tigered Grandiflora that makes such a compact, choice pot plant, and in center the ever popular Multiflora nana; its flowers are the most durable because of their limited size. We consider these three types the best available, and our sales records bear this out.

CYCLAMEN

We look forward to complete supplies by July 1st of all varieties as this catalog goes to press. Since this seed is scarce because of European conditions, we suggest assuring your requirements by ordering at once.

	100 Seeds	1000 Seeds	5000 Seeds
No. 1 Dark Blood-Red	\$1.75	\$16.00	\$70.00
No. 2 Bright Red	1.75	16.00	70.00
No. 3 Pure Rose	1.75	16.00	70.00
No. 4 Soft Rose with carmine eye. (Improved Rose of Marienthal).	1.75	16.00	70.00
No. 5 White with carmine eye	1.75	16.00	70.00
No. 6 Pure White	1.75	16.00	70.00
No. 7 Bonfire Brilliant salmon.	2.25	20.00	90.00
No. 8 Salmon-Scarlet (America Improved).	2.30	21.00	95.00
No. 9 New Salmon-Rose Imp.	2.25	20.00	90.00
No. 10 Glory of Wandsbek (Perle of Zehlendorf). Dark salmon.	2.20	18.00	80.00
No. 11 Rose of Zehlendorf Light salmon.	2.20	18.00	80.00
No. 12 Orange Beauty Orange-vermilion.	2.30	21.00	95.00
No. 14 Morning Red	2.20	18.00	80.00
No. 15 Saffron-Red	2.20	18.00	80.00
No. 16 Saffron-Red, Silver Edge	2.25	20.00	90.00
No. 17 Striata Mixed.	2.25	20.00	90.00
No. 18 Mozart. Deep pink.	2.30	21.00	95.00
No. 19 Lavender	1.75	16.00	70.00
No. 20 New Ruffled Especially attractive class.	2.30	21.00	95.00
No. 21 Pink Pearl. Salmon-pink.	2.30	21.00	95.00
No. 22 (New) Rose of Alfeld Salmon red; particularly recommended for cutting.	2.30	21.00	95.00
Cristata. Pure white feathered.	2.20	18.00	80.00
Mixture of above colors.	1.65	15.00	65.00

VOGT'S DOUBLE STRAIN.

We handle only Mr. Vogt's seed of this attractive double type.

Cerise Brilliant. Rich cerise-red.

Prosperity. Flaming rich rose.

Admiration. Salmon-rose with shaded eye.

Mixture of above colors.

All above priced at: 100 seeds, \$2.50; 250 seeds, \$5.75; 500 seeds, \$10.75; 1000 seeds, \$20.00.

MISCELLANEOUS ANNUALS

Asparagus

- 750 s. Likes heat during germination and a sandy soil mixture.
Plumosus Nanus. 100 seeds, 35c; 250 seeds, 60c; 1000 seeds, \$1.80; 5000 seeds, \$7.00.
Sprengeri. 100 seeds, 25c; 250 seeds, 40c; 1000 seeds, \$1.00; 5000 seeds, \$4.50.

Browallia

- 65,000 s. Fine winter and spring flowering pot plant.
Speciosa Major Blue. 10 in. Standard large flowered blue. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.25.
Speciosa Major White. Same as above but white. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.50.
Viscosa Compacta Sapphire. More compact than above with a profusion of small light-eyed flowers. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00.

Candytuft

- Hyacinth-Flowered Giant White.** (Ball Strain). 9500 s. A fall sowing will flower during mid-winter on raised beds. Tr. pkt., 20c; $\frac{1}{2}$ oz., 40c; 1 oz., 75c; 4 ozs., \$2.35; 1 lb., \$7.50.
 For perennial *Candytuft* or *Iberis*, see page 22.

Centaurea Cyanus

(*Bachelor Button*). 6500 s. Ours are the new large flowered strains for florist use.

- *Blue Boy.** The standard Bachelor Button blue.
Black Boy. Deep Maroon.
***Pinkie.** Attractive rose.
Red Boy. Carmine rose.
Snow Man. Pure White.
Formula Mixture of all colors in this class.
Prices EACH: Tr. pkt., 15c; 1 oz., 40c; 4 ozs., \$1.35; 1 lb., \$4.50.
 For hardy *Centaurea Montana*, see page 21.

Didiscus

- Coeruleus (Blue Lace Flower).** 10,000 s. Attractive cut flower for fall from a July sowing or later from an after Mum planting. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 80c.

Dracaena

- Indivisa.** 1500 s. The narrow-leaved and most popular. Tr. pkt., 15c; 1 oz., 40c; 4 ozs., \$1.25; 1 lb., \$4.00.
Australis 1000 s. The broader-leaved kind. Tr. pkt., 20c; 1 oz., 85c.

Exacum

- *Affine** 27,000 s. per $\frac{3}{4}$ ounce. An easily grown richly fragrant pot plant. Deep lavender-blue flowers with contrasting yellow stamens and attractive light green foliage. Tr. pkt., \$1.00; $\frac{3}{4}$ ounce, \$2.25.

Grevillea

- Robusta (Australian Silk Oak).** 3,000 s. Popular for specimen or combination work. Tr. pkt., 20c; 1 oz., 90c.

Gypsophila

- ELEGANS.** 24,000 s. A fast growing catch-crop.
***Covent Garden Market.** Our fine large flowered standard strain. 1 oz., 20c; 4 ozs., 60c; 1 lb., \$2.00; 5 lbs., \$8.00.
Paris Market. (*Multiflora Strain*) Medium sized flowers. 1 oz., 20c; 4 ozs., 50c; 1 lb., \$1.60; 5 lbs., \$6.00.
 For hardy *Gypsophila*, see page 22.



A DWARF IMPATIENS. This was found in Germany catalogued as *Impatiens Sultani Hybrida Nana*. It is uniformly compact in growth.

Impatiens

A considerably widened field of usefulness is accorded this already fine winter pot plant by the dwarf Sultani strains listed below. (See photo.) A July or August sowing of this dwarf stock makes fine dwarf and compact 3 or 4 in. pot plants by winter. Very free flowering.

- *Dwarf Sultani Bright Carmine.** 70,000 s. A dwarf form of this well known variety. 4 in. pot plants reach a height of about 6 in. and flower very profusely.
***Dwarf Sultani Mixture.** 70,000 s. A bright mixture of colors in this new dwarf class.
 Prices on EACH above: Tr. pkt., 75c; $\frac{3}{8}$ oz., \$1.75.

- Sultani.** 20,000 s. 18 in. Bright rose. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.75.
Holsti Liegnitzia. Free flowering vermilion-red. Tr. pkt., 75c.
Holsti Hybrids. 50,000 s. Mixture. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.00.

Lupine (Annual)

The popular early spring crop of Lupines comes from a late summer sowing in pots. When well started, they can be hardened off and kept in cold frames until Mum beds are cleared.

- *GIANT KING.** 1300 s. The preferred strain for greenhouse cut flower work. Long-stemmed and large flowered.
***Oxford Blue.** (Dark Blue) Standard rich deep blue. **Sky Blue.** **White.**
Heliotrope. A pleasing rosy lavender.
Mixture of all colors.

Prices on above, EACH: Tr. pkt., 20c; 1 oz., 50c; 4 ozs., \$1.35.
 For perennial or *Polyphyllus Lupine*, see page 23.

Marigold

For mid-winter cutting Marigolds are hard to beat. Free flowering with bright positive colors and growth that isn't affected by dark mid-winter weather are strong points in their favor.

WINTER FLOWERING. 9,000 s. The following are "short day" varieties that flower only in the short days of winter. The sowing season is, therefore, limited in our latitude, beginning end of July to first part of December. Plant on bed 10 x 12 in., 25 ft. on end of bench is ample for most retail growers.

- *Australian Tree.** The standard variety. Rich mahogany-red with golden yellow crest. 95% double. Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.00.
Lieb's Strain. Very similar to above. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

Miscellaneous Annuals—(Continued)

MARIGOLD (Continued)

Lieb's Winter Sunshine. Large flowered clear yellow. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

GIANT AFRICAN. 10,000 s. For December flowering sow in mid-August and transplant in shallow beds. This runs them up into a fine single stemmed crop on 18 in. stems.

***All-Double Orange.** The standard large flowered variety.

***All-Double Lemon.**

Prices on above, EACH: Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

***All-Double Mixture.** Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.35.

Mignonette

27,000 s. Sow seed in pots in August and plant out in a Carnation temperature 10 x 12. Disbudding and supporting produce fine long-stemmed flowers.

Ball Strain. Selected for earliness and full spikes of large white flowers. ½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$1.75.

New York Market. Tr. pkt., 75c; ¼ oz., \$1.50.

Myosotis (Forget-me-not). 44,000 s.

***Ball Early.** Ours is the original and true WINTER FLOWERING variety. An August sowing will flower continuously from November on thruout the dark winter months, 8 to 10 in. stems. Tr. pkt., 35c; ¼ oz., 85c; 1 oz., \$2.85.

For other *Myosotis*, see page 23.

Nasturtium

175 s. The following varieties are of the double climbing type that, from an August sowing, will produce an abundance of brightly colored flowers thruout the winter months. Plant 12 in. apart in a well exposed location and with substantial support.

Golden Gleam. The original golden yellow double variety.

Scarlet Gleam. A brilliant color.

Gleam Hybrids. A very complete mixture.

Prices on above, EACH: 1 oz., 15c; 4 ozs., 35c.

SCHIZANTHUS

2-3000 seeds per tr. pkt.

This is very much a cool temperature plant so doesn't do well in the deep South. *Schizanthus* are valuable to a retail grower for cutting as well as pot plants. To flower them during mid-winter, the roots must be restricted to either pots or shallow benches. An August 1 sowing, grown in 45-48 degrees will flower for Valentines Day.

*BALL DWARF MIXTURE

Thru selection over a number of years we have perfected this strain to where it comes 80-85% true dwarf. In this form it is an attractive pot plant. It should be flowered in not over a 4 in. pot. We recommend sowing around October 1. This will flower early Spring. A December or early January sowing is grown into nice 3 in. specimens for combinations. T.P. 50c; ½ oz., \$1.50.

***Ball Brilliant Blend.** A carefully blended mixture of medium dwarf strains, all large flowered with fairly dark bright colors. Well suited to cutting; if properly pinched, makes fine pot specimens. Tr. pkt., 35c; ½ oz., 75c; ¼ oz., \$1.15.

Dr. Badger's Improved Hybrids. An extra large flowered strain with choice colors and medium dwarf habit. An excellent all purpose strain, being large enuf for pot plants and long-stemmed enuf for cutting. Tr. pkt., 35c; ¼ oz., \$1.00.

***Pansy-Flowered (Danbury Park).** The only true Pansy-flowered strain we have ever flowered. Comes quite true to large flat pansy-like flowers. Attractive soft pastel shades. Tr. pkt., 35c; ½ oz., \$1.00.

A few *ORIGINATOR'S PACKETS* at 75c each.



Seed of all sown the same day, shows the value of Ball's Early for cutting or pot plants. Under outdoor bedding conditions it naturally is more dwarf.

***Giant Blotched.** Noted for its brightly colored flowers, each having a bold dark center that contrasts well with the bright pink and rose shades that predominate. Two to three weeks earlier than most strains and effective as a pot plant if well pinched. Tr. pkt., 50c; ½ oz., \$1.25.

Monarch Strain (Hurst). Extra large flowered, even some larger than Dr. Badger's. Has same desirable medium tall habit and choice range of colors; many bright rose shades. Tr. pkt., 50c; ½ oz., \$1.00.

Statice

Our annual *Statice* is grown for us by a specialist that insures us first-class strains of high germination.

Bonduelli Superba. 350 seed heads per ounce. Similar to *Sinuata* class. Large yellow flowers. Tr. pkt., 15c; 1 oz., 40c; 1 lb., \$4.00.

Sinensis. 17,000 s. 18 in. Pure white with canary-yellow. Tr. pkt., 25c; 1 oz., 75c; 4 ozs., \$2.50.

Suworowi. (Russian or Rat Tail Statice) 12,000 s. An October sowing carried along in pots and planted after Mums will produce fine long spikes in early spring. A fine early cut flower item. Tr. pkt., 15c; 1 oz., 75c; 4 ozs., \$2.50.

SINUATA. 350 seed heads per ounce. Grown extensively in the south.

***Market Grower's Blue.** Fine even deep blue. Excellent.

***Lavender Queen.** A very pleasing and bright pastel lavender.

***Snow Witch.** Improved, white.

Kampf's Tall Improved. Standard long-stemmed blue.

True Blue.

Rosea Superba. Rosy lavender.

***New Hybrids Mixture.** A very attractive and varied mixture. Prices on above, EACH: Tr. pkt., 15c; 1 oz., 25c; 1 lb., \$2.50. For *perennial Statice*, see page 24.

Venidium

65,000 s. Sow in August or September for a spring crop.

Fastuosum. Brilliant orange with dark center.

Ball Hybrids. A very interesting and varied array of colors.

Prices on above, EACH: Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.25.

Wallflower

(Annual). 14,000 s. Choice richly fragrant spikes flowering in spring. A circular outlining our method of handling this attractive crop is enclosed with every order for seed.

***Gold Standard.** Deep rich golden yellow; the best color.

Golden Yellow Flaked Brown.

Prices on above, EACH: Tr. pkt., 25c; ¼ oz., 75c.

For other *Wallflower*, see *Cheiranthus*, page 21.

MISCELLANEOUS PERENNIALS

Achillea

***Filipendula Parker's Variety.** (*Eupatorium*). 22,000 s. 4 ft. Fall flowering. Large golden yellow umbels. Perfectly hardy with us.

***The Pearl (*Pтарница*).** 175,000 s. 30 in. The standard double white for cutting.

Prices on above, EACH: Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.75.

Alyssum

The two varieties following are perfectly hardy with us and make fine, free flowering rock garden or border plants.

***Saxatile Compactum.** 30,000 s. 12 in. Flowers early May. Rich golden yellow. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 85c.

Saxatile Silver Queen. (*Sulphureum*). 30,000 s. Same as above but a light lemon yellow. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Anchusa

***Barrelieri.** 5500 s. 15 in. Very fine Forget-me-not blue rock garden plant. Flowers middle to end of May. Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.50.

Dropmore Strain. (*Italica*). 1100 s. 6 ft. Nice blue for cutting. Tr. pkt., 15c; ¼ oz., 20c; 1 oz., 50c.

Myosotidiflora. 10,500 s. 12 in. May flowering Forget-me-not blue. Tr. pkt., 50c; ¼ oz., \$2.50; 1 oz., \$9.00.

Anthemis

Kelwayi (Hardy Marguerite). 85,000 s. 3 ft. Yellow Daisy flowers produced thruout the summer. Tr. pkt., 15c; 1 oz., 50c.

Aquilegia (Columbine) 15,500 s.



Aquilegia Long Spurred Crimson Star
Dark crimson and white are the distinctive contrasting colors of this variety.

Our Finest Varieties!

***Longissima.** Delicate, pale yellow with extra long (4 in.) spurs. Richly fragrant. Tr. pkt., \$1.00; ⅛ oz., \$3.00.

***Longissima Hybrids.** A variety of attractive red and yellow shades in the Longissima type. Originator's pkts. only, 50c.

***Mrs. Nichols.** A large flowered, clear deep blue Columbine. Tr. pkt., 50c; ⅛ oz., \$1.00; 1 oz., \$7.00.

***Crimson Star.** Deep blood red with white corolla. See photo. Tr. pkt., 50c; ⅛ oz., \$1.25; 1 oz., \$8.00.

***Mrs. Scott Elliott's Hybrids.** An excellent and popular long-spurred mixture. Tr. pkt., 35c; ¼ oz., 85c; 1 oz., \$3.00.

Alpina. 2 ft. Blue. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Silver Queen (*Chrysanth*). Long-spurred white. Prefer Snow Queen. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

Coerulea Blue (*Rocky Mountain Columbine*). Sky-blue with white corolla. Tr. pkt., 25c; ¼ oz., 55c; 1 oz., \$1.85.

***Snow Queen.** (*Candidissima*). 18 in. Finest pure white variety. Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.50.

Rose Queen. Rose shades with white corolla; varies in color. Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.75.

Glandulosa Vera. 18 in. Large spurless flowers. Bright blue with white corolla. Tr. pkt., 50c.

Mixture of all colors in this long-spurred class. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.90.

Arabis (Rock Cress)

***Alpina Snowcap.** 150,000 s. 6 in. Of a dwarf and compact habit. Excellent. Tr. pkt., 25c; ¼ oz., 55c; 1 oz., \$2.00.

Alpina. 150,000 s. 12 in. White. Tr. pkt., 15c; 1 oz., 50c.

Armeria

Maritima (*Statice Armeria*). 17,500 s. 12 in. Lilac-rose. Tr. pkt., 50c.

Asclepias

Tuberosa. 4500 s. Fine orange for cutting. Requires well drained location. Freezing over winter helps germination. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Aster (Hardy)

***Wartburg Star (*Subcoeruleus*).** 15,000 s. 18 in. Very nice rock garden material; tall and large enuf for cutting. Very hardy and June flowering. Tr. pkt., 50c; ⅛ oz., \$1.25; ½ oz., \$2.25.

Aster—(Continued)

Dark Beauty (*Alpina*). 26,000 s. 12 in. Single deep blue. Tr. pkt., 35c; ⅛ oz., \$1.25.

Novi-Belgi. 90,000 s. New Hybrids. Fall flowering. Tr. pkt., 35c; ¼ oz., \$1.25; 1 oz., \$4.00.

Aubretia

Large Flowered Hybrids (*Monarch strain*). 150,000 s. 6 in. This new strain shows a particularly wide and bright color mixture. Tr. pkt., 35c; ¼ oz., \$1.25; 1 oz., \$4.00.

For Baby's Breath, see Gypsophila, page 18 and 22; also Euphorbia, page 21.

Baptisia

Australis (*False Indigo*). 1700 s. Sprays of pea-shaped indigo-blue flowers. 3 ft. Tr. pkt., 15c; 1 oz., 45c.

Bellis

Perennis (*Double English Daisy*). 100,000 s. 6 in. Well established flowering plants for spring sales are from a fall seeding carried along in frames with Pansies and Violas. Following varieties are of the large flowered double MONSTROSA type.

***Red.** Deep red.

Rose. Deep rose.

White.

***Mixture**

Prices on above, EACH: Tr. pkt., 50c; ¼ oz., 90c; 1 oz., \$3.25. For Bleeding Heart, see Dielytra, page 21.

Boltonia

Latisquama. 95,000 s. 4 to 5 ft. Delicate pink. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Campanula

CARPATICA. 350,000 s. 12 in. Dwarf perennial.

Blue, White and Hybrid Mixture, a strain containing many new colors in this dwarf class.

EACH: Tr. pkt., 15c; ¼ oz., 35c; 1 oz., \$1.15.

MEDIUM CALYCANTHEMA. (*Cup-and-Saucer Type*). 120,000 s. 3 ft. Biennial.

Dark Blue

Light Blue

Rose

White

EACH: Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.45.

Mixture. Tr. pkt., 15c; ¼ oz., 35c; 1 oz., \$1.25.

MEDIUM SINGLE (*Canterbury Bells*). 135,000 s. 3 ft. Biennial, flowering second season from seed.

Blue

Lilac

Rose

White

and Mixture

EACH: Tr. pkt., 15c; 1 oz., 40c.

MISCELLANEOUS PERENNIALS—(Continued)

Campanula—(Continued)

PERSICIFOLIA. 340,000 s. 30 in. Perennial.

White **Blue** **Mixture**
EACH: Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.85.
PYRAMIDALIS (*Chimney Campanula*). 250,000 s. 5 ft.
Mixture. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.
For Perennial Candytuft, see *Iberis*, page 22.

Carnation

GRENADIN (*Hardy Carnation*). 14,000 s. 20 in. Good for cutting but needs winter protection.
Golden Sun ***Pink** ***Red** **White** ***Mixture**
Prices EACH above: Tr. pkt., 35c; ¼ oz., 90c; 1 oz., \$3.25.

Catananche

Coerulea. 16,000 s. 30 in. Everlasting light lavender-blue Centaurea like flowers produced freely first year from seed. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

Centaurea

Montana. 1600 s. 24 in. Large Cornflower-blue flowers. Tr. pkt., 20c; ¼ oz., 30c; 1 oz., 90c.
For Annual Centaurea Cyanus, see page 18.

Cerastium

*Tomentosum. 42,000 s. 10 to 12 in. White edging and rockery plant. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

Cheiranthus (Wallflower)

*Golden Bedder. 19,000 s. 18 in. Large deep golden yellow. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.
Allioni (*Siberian Wallflower*). 19,000 s. 18 in. Free flowering brilliant orange. Tr. pkt., 10c; 1 oz., 30c.
For Annual Wallflower, see page 19.

Chrysanthemum

*Korean Hybrids. 60,000 s. Single and semi-double types. Very attractive color mixture. Flowers first part of October. Tr. pkt., \$1.00; ½ oz., \$2.00.

Indicum. 77,000 s. Large flowered double and semi-double types. Tr. pkt., 50c; ½ oz., \$1.25.

Japonicum. 77,000 s. (*Japanese Mountain or Cascade type*). Single mixture. Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.75.
For *Chrysanthemum Leucanthemum*, see *Daisy* on this page.
For *Columbine*, see *Aquilegia*, page 20.

Coreopsis

*Sunburst (*New Gold*). 11,000 s. A fine semi-double strain. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., 90c.
*Mayfield Giant. 11,000 s. Extra large deep golden yellow. Single. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 65c.

Daisy (Chrysanthemum Leucanthemum)

Double Fringed (*Diener's*). 18,000 s. A specially reselected strain producing about 50% good double types that should be propagated by division. Tr. pkt., 50c; ½ oz., \$1.00.

Elder. 65,000 s. Earliest flowering—early June.

*June Marguerite. 40,000 s. Large June flowering variety.

Spring Marguerite.

*Mayfield Giant. 21,000 s. Quite large flowered, end of June.

Alaska. 21,000 s. The standard Shasta Daisy. July.

Conqueror. 21,000 s. Giant late white. Late July.

Prices EACH above: Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 90c.

English Daisy, see *Bellis*, on page 20.

Dianthus 28,000 S.

Allwoodi Alpinus Mixed. 8 to 10 in. 1½ in. single flowers in shades of pink. Early June. Tr. pkt., 35c; ¼ oz., \$1.35.

Deltoides Erecta. 6 in. June flowering. A dwarf Maiden Pink. Bright red. Tr. pkt., 50c; ¼ oz., \$2.00; 1 oz., \$7.00.

Knappi. 12 to 15 in. June flowering. Small clusters of single yellow flowers. Perfectly hardy. Tr. pkt., 50c; ½ oz., \$1.60.

*Loveliness. 20 in. Large, freely produced, light lavender flowers, quite fragrant and with highly fringed and curled petals. Tr. pkt., 50c; ½ oz., \$1.25.

Dianthus—(Continued)

*Latifolius Atrococcineus. 12 to 15 in. Miniature Rose-like flowers. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 85c.

Plumarius, Single Mixture (*Clove Pink*). 20 in. Early, free flowering, and sweet scented. Tr. pkt., 15c; 1 oz., 50c.

*Neglectus, Rose Cushion. 6 in. Very attractive neat rock plant. Many small rose-pink flowers extending above a dense mat of foliage end of May. Perfectly hardy. Tr. pkt., 50c; ½ oz., \$1.25.

BARBATUS (*Sweet William*). 24 in. Early June flowering. Perfectly hardy, flowering second season from seed.

*Holborn Glory. Striking combination of crimson with white.

*Newport Pink (*Pink Beauty*). A particularly rich pastel salmon rose shade. Very attractive.

Purple Beauty.

Scarlet Beauty. Well named.

Giant White. Ours is a particularly large flowered strain.

Single Mixture.

Prices EACH above. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.25.

*Double Mixture. Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

*Midget. Very fine neat alpine and rock plant. 6 to 8 in. with dense heads of single Sweet William flowers. Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.75.

Dictamnus

Fraxinella (*Gas Plant*). 1700 s. 30 in. Pink with dark veins. Sow seed in the fall and allow to stand outdoors over winter for good germination. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.35.

Dielytra (Dicentra)

Spectabilis (*Bleeding Heart*). 1600 s. 32 in. Sow seed in fall and allow to stand outdoors over winter for good germination. Tr. pkt., 50c; ¼ oz., \$4.00; 1 oz., \$15.00.

Digitalis

GLOXINOIDES (*Foxglove*) 180,000 s. 4 ft.

Purple, Rose, White, and Giant Shirley Mixture
Each: Tr. pkt., 15c; 1 oz., 60c.

Doronicum

18,000 s. (*Leopard's Bane*). Attractive yellow Daisy-like flowers.

*Bunch of Gold (*Pardalanches*). 30 in. Long-stemmed and extra free flowering. Fine. Tr. pkt., 50c; ½ oz., \$1.35.

Caucasicum. Tr. pkt., 50c; ½ oz., \$1.00.

For EDELWEISS, see *Leontopodium* on page 22.

Echinops

Ritro (*Ornamental Thistle*). Flowers 1½ to 2" in diameter with a fine blue color. Tr. pkt., 15c; 1 oz., 50c.

Eremurus

Species Mixed. Tall stately flower spikes 4-8 ft. in shades of pink and white. Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.75.

Eryngium

Bourgati. 20 to 24 in. June flowering. Bright steel blue heads and deeply cut veined leaves are quite attractive. Tr. pkt., 75c.

Amethystinum. 19,000 s. 3 ft. Large Amethyst-blue. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

Euphorbia

Corollata (*Wild Baby's Breath*). 8700 s. 24 in. Small Gypsophila-like pure white flowers. Tr. pkt., 35c; ¼ oz., \$1.25; 1 oz., \$4.00.

Polychroma. 15-20 in. Very compact plant producing brilliant yellow bracts of leaves. Perfectly hardy with us. Tr. pkt., 50c; ½ oz., \$1.50.

Myrsinites. Attractive succulent-like silvery green foliage. Each branch produces a brilliant yellow bract of leaves in May. Tr. pkt., 35c; ¼ oz., \$1.60.

For FEVERFEW, see *Matricaria*, page 23.

For FOXGLOVE, see *Digitalis*, above.

MISCELLANEOUS PERENNIALS—(Continued)

Gaillardia

GRANDIFLORA. 9500 s. The large flowered, long stemmed class.

***Dazzler.** The standard fine cutting strain. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

***Monarch Strain.** A very superior mixture of large, full petaled flowers with an unusually bright color mixture. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Burgundy. Deep shade of wine red. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Maxima Aurea. Yellow. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.35.

The King. Large deep red flowers edged gold. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Oculata New Hybrids. Mixture of pastel shades; long stemmed. Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

Portola Hybrids Mixed. Standard hybrid mixture. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.45.

Goblin. 12 to 14 in. Forms very attractive compact plants. Tr. pkt., 35c; ¼ oz., 90c; 1 oz., \$3.00.

For GAS PLANT, see Dictamnus, page 21.

Geum (7000 s.)

Lady Stratheden. 24 in. Double golden yellow.

Mrs. Bradshaw. 24 in. Double glowing red.

Prices EACH above: Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.65.

Borisii. 12 to 15 in. (true stock). A very attractive early May flowering species. Brilliant single orange-scarlet flowers. Perfectly hardy border or rock garden subject. Tr. pkt., 50c; ¼ oz., \$1.25; 1 oz., \$4.25.

Gypsophila

34,000 s. A planting of several varieties of hardy Gyp is interesting and valuable for outdoor summer cutting.

***Pacifica.** 42 in. Attractive shade of bright pink. Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.50.

***Oldhamiana.** 30 in. Heads of feathery light rose-pink flowers. Flowers first season from an early sowing. October flowering—watch frost dates. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

PANICULATA. The regular white hardy Gyp. Note that double grafted varieties like Bristol Fairy are *not* available from seed.

***Double Snow Flake.** 40 in. An improved double hardy Gyp. Produces about 50% double flowering plants. Tr. pkt., 35c; ¼ oz., \$1.15; 1 oz., \$4.00.

Single White. Tr. pkt., 15c; 1 oz., 35c.

REPENS. 6 in. An attractive hardy rock garden plant.

Rose. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

White. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.35.

For ANNUAL GYP, see page 18.

Helianthemum

Mutabile (Rock Rose). 15,000 s. 8 to 10 in. Very attractive dwarf evergreen rock plant. Tr. pkt., 20c; 1 oz., 80c.

Hesperis

Matronalis (Sweet Rocket). 15,000 s. 3 to 4 ft. Deep magenta red. Tr. pkt., 10c; 1 oz., 25c.

Heuchera

Sanguinea (Coral Bells). 750,000 s. 24 in. Crimson. Tr. pkt., 50c; ¼ oz., \$2.00; 1 oz., \$7.00.

Hollyhock

Imperator. 2700 s. Choice double fringed mixture. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60.

Allegheny Mixed. 2700 s. Single and semi-double types. Tr. pkt., 15c; 1 oz., 50c.

CHATER'S DOUBLE. 3100 s. The standard double Hollyhock.

Chamois, Deep Rose, Lilac Beauty,
Newport Pink, Scarlet, Sulphur Yellow,
White, and Mixture of all colors.

EACH; Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

Iberis 11,500 S.

Gibraltarica. 12 in. Large flowered lilac. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 85c.

Sempervirens. 12 in. Flowers end of May. White. Seedlings flower second season. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

Lathyrus

LATIFOLIUS (Hardy or Everlasting Sweet Pea). 550 s. Abundant source of short-stemmed flowers.

Pink Beauty White Pearl Red Mixture
EACH; Tr. pkt., 15c; 1 oz., 50c.

Lavandula

Vera (True Sweet Lavender). 32,000 s. Seed irregular and slow in germinating. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

Leontopodium

Alpinum (Edelweiss). 275,000 s. Attractive rock garden plant. Small greenish white leaves. Tr. pkt., 35c; ¼ oz., \$1.25.

Liatris (Blazing Star)

9500 s. Excellent cut flowers, long decorative, bold spikes. Used very effectively in basket arrangements.

Spicata. Not quite so long-stemmed or with as long flower spikes as Pycnostachya; purple. Prefers a damp low location. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

Scariosa, Rosy Purple. Extra large individual flower heads on long, loosely set spikes. Tr. pkt., 35c; ¼ oz., 85c; 1 oz., \$3.25.

White Spire. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

***Pycnostachya.** Extra long-stemmed—3 to 5 ft. with long 15 to 18 in. flower spikes of rosy purple. Finest cut flower kind. Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.50.

***Scariosa White.** A very fine pure white. Long closely set flower spikes. Our strain comes about 85% true to type. Tr. pkt., 50c; ¼ oz., \$1.60; 1 oz., \$5.50.

Lobelia

Cardinalis (Fulgens). 725,000 s. (Cardinal Flower). 36 in. Tr. pkt., 25c; ¼ oz., 85c; 1 oz., \$3.25.

Syphilitica. 1,750,000 s. 2 to 3 ft. Attractive blue spikes. Tr. pkt., 25c; ¼ oz., \$1.50.

LILIES FROM SEED

The new White Queen has added new importance to seed-produced Lilies. In addition to low initial cost (no bulb bills) and absolutely disease free stock, this new strain flowers 15 months from seed and with flowers fully equal to fine Erabu specimens. Used considerably as a cut flower strain. A circular detailing cultural method of handling White Queen Lily from seed will be enclosed with every order for seed or gratis upon request.

***White Queen.** 8200 s. The largest flowered Pure White seed propagated Lily we know of. A fine variety. ½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$1.75; 1 oz., \$3.25; 1 oz., \$12.00.



Lily—White Queen; fine for cutting.

MISCELLANEOUS PERENNIALS—(Continued)

Lilies (Continued)

Philippinense Formosanum, Giant Flowered. 8200 s. An improved form of the original stock of Philippine Lily. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.75; 4 ozs., \$8.00.

Philippinense Formosanum Improved. 8200 s. The original Philippine Lily. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Regale (Regal Lily). 6500 s. Pink with primrose center. Tr. pkt., 15c; 1 oz., 65c.

Linum

Perenne (Perennial Flax). 8500 s. Blue. Tr. pkt., 15c; 1 oz., 40c.

Lunaria

BIENNIS (Honesty or Money Plant). 1500 s.

White **Crimson** **Mixture**
EACH: Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

Lupinus

POLYPHYLLUS (Hardy Lupine). Fine cutting material. Requires a well drained location and thrives best in cool climates.

***Russell Strain.** 1000 s. Unusually long closely set flower spikes and the widest range of attractive colors found in Hardy Lupines.

Reselected Stock. (Originator's packets) 20 seeds, 20c; 65 seeds, 50c; 150 seeds, \$1.00; 350 seeds, \$2.00.

Grown from Originator's Stock. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

MISCELLANEOUS POLYPHYLLUS VARIETIES. 1450 S.

Chocolate Soldier. Yellow shading to chocolate.

Tr. pkt., 25c; ¼ oz., 90c; 1 oz., \$3.50.

Dark Blue. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

Luteus. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 85c.

Rose. Tr. pkt., 15c; 1 oz., 50c.

White. Tr. pkt., 15c; 1 oz., 40c.

***Harkness Regal Mixture.** The standard fine hybrid mixture. Tr. pkt., 15c; 1 oz., 65c.

For *Annual Lupine*, see page 18.

Lychnis 64,000 s.

Alpina. Rose. 12 in. Nice dwarf rock garden plant.

Tr. pkt., 35c; ¼ oz., 90c.

Chalcedonica. 36 in. Scarlet. Tr. pkt., 15c; 1 oz., 65c.

Matricaria *Capensis* (Feverfew)

145,000 s.

***Ball Double White.** Since introducing this strain in '34 demand for it is constantly increasing as a standard green house and outdoor cut flower crop. Differs from ordinary cutting propagated strain in having smaller and more compact completely double flowers that hold up much better in shipping and handling. Responds readily to additional lighting for forcing. 18 in. outdoors, 2-3 ft. under glass. Tr. pkt., 35c; ¼ oz., \$1.00; ¼ oz., \$1.75.

Double Golden Ball. 10 in. Dwarf, semi-double yellow.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Myosotis (Forget-me-not) 42,000 s.

***Blue Bird (Oblongata).** 12 in. Standard blue for Spring greenhouse flowering. Tr. pkt., 30c; ¼ oz., 75c; 1 oz., \$2.75.

Palustris. True Marsh Forget-me-not. Hardy with us. Blue.

Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.50.

ALPESTRIS. Biennial.

***Royal Blue (Indigo Blue).** 12 in. Deep rich blue.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Pink Bouquet (Stricta Grandiflora). Medium deep pink shade; compact upright habit. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

White. 12 in. Spreading habit.

Tr. pkt., 20c; ¼ oz., 35c; 1 oz., 90c.

For other *Myosotis* including our *Ball Early*, see page 19.

For *Painted Daisy*, see *Pyrethrum*, above.

For *Oriental Poppy*, see above.

Phlox (Perennial)

Hybrid Mixture (Decussata). 2500 s. 3 ft. Our Strain contains many new large flowered, brilliantly colored types.

Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.60.

Physalis

Francheti (Chinese Lantern Plant). 18,000 s. Large decorative orange seed pods. Tr. pkt., 15c; 1 oz., 60c.

Physostegia

Virginica. 16,000 s. 4 ft. Rosy lilac.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

For *Pinks*, see *Dianthus*, page 21.

Platycodon

GRANDIFLORUM (Tufted Harebell or Balloon Flower). 28,000 s. 24 in. Very attractive for spring sales, perfectly hardy.

White, **Blue,** a clear deep violet-blue.

Mixture, a formula mixture of above two colors.

EACH: Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

Poppy

ORIENTALE (Oriental Poppy). 140,000 s. Sow seed in pots and transplant into the field when small so as not to disturb the roots. Seed produced strains will vary some in color.

***Olympia.** A seed produced strain of this fine standard orange-scarlet variety. Produces 50% true semi-double flowers. Originator's Tr. pkt., 60c.

Beauty of Livermere. Dark oxblood-red. Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.75.

Brilliant. 40 in. Vivid, fiery red. Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.75.

Mrs. Perry. Fine salmon-rose. Tr. pkt., 35c; ¼ oz., \$1.15.

Mixture of all colors in this class. Tr. pkt., 20c; ¼ oz., \$1.75.

Primula

VERIS. 33,000 s. Especially the new large flowered Colossea has proven the usefulness of this class for spring pot plants and combinations, since they can be moved without harm while flowering. Plants lifted from outdoors in the fall will make specimen pot plants from February and March on. Also makes fine hardy border plants if given partial shade.

***Colossea.** Our trials of this strain show a real improvement in flower size, new bright colors, and strong growth. Originator's Tr. pkt., only, 75c.

***Giant Munstead Strain.** The standard strain for bedding. Not so tall as above strains; in shades of yellow. Tr. pkt., 75c; ¼ oz., \$1.50; ¼ oz., \$2.75; 1 oz., \$10.00.

***Polyanthus Mixture.** Unwin's Strain. 12 in. Tr. pkt., 50c; ¼ oz., \$1.25; ¼ oz., \$2.25; 1 oz., \$8.00.

Giant Monarch Strain. A fine large flowered mixture. Tr. pkt., 75c; ¼ oz., \$1.50.

Giant Crimson. In the large flowered Giant class. Tr. pkt., 75c; ¼ oz., \$1.25; ¼ oz., \$2.25.

Giant Yellow. A Giant separate color selection. Tr. pkt., 75c; ¼ oz., \$1.25; ¼ oz., \$2.25.

For other PRIMULA varieties, see page 14.

Pyrethrum

The ROSEUM type contains the standard cut flower varieties.

Uliginosum. 62,000 s. 3 ft. Single white, Daisy-like flowers. Tr. pkt., 35c; ¼ oz., \$1.25; 1 oz., \$4.50.

ROSEUM (Painted Daisy). 18,000 s. The standard hardy cut flower class.

***Semi-Double Mixture.** An excellent strain. Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$5.00.

***James Kelway.** Fine dark red cut flower variety. Tr. pkt., 35c; ¼ oz., \$1.25; 1 oz., \$4.00.

Atrosanguineum. A popular dark crimson strain. Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.75.

***Robinson's Hybrids.** Large single mixture. Tr. pkt., 35c; ¼ oz., \$1.25; 1 oz., \$4.00.

Robinson's Dark Crimson. An extra large flowered, true strain of dark crimson Pyrethrum for cutting. Tr. pkt., 50c; ¼ oz., \$1.25; 1 oz., \$4.00.

Rudbeckia

Purpurea (Echinacea). 7000 s. 4 ft. Reddish purple. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

Salvia

Patens. 3800 s. 30 in. Navy blue hardy Salvia. Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.75.

Saponaria

Ocymoides. 5500 s. 12 in. Trailing rose hardy rock plant. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 85c.

MISCELLANEOUS PERENNIALS—(Concluded)

Scabiosa

2400 s. Seed germination sometimes slow and irregular.

Columbaria Lavender. Delicate color.

Columbaria Pink. Orchid-pink shade.

Caucasica Perfecta. Large flowered improved form of this lilac-lavender strain. EACH: Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

***Caucasica, House Hybrids.** Shades of lavender and blue. Use this strain for a small bed of hardy cutting Scabiosa. Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$2.85.

Fischeri. 30 in. rounded bushy plants. Flowers medium-sized and a bright lilac-lavender color. Very free flowering and perfectly hardy with us. Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.25.

Sedum (700,000 s.)

Kamtschaticum. 6 to 8 in. Very nice green foliage with yellow flowers. Tr. pkt., 50c; ½ oz., \$1.50.

***Bronze Carpet (Spurium Coccineum).** 4 in. Attractive deep bronze foliage. Tr. pkt., 35c.

Sempervivum (House Leek)

Perennial Mixture. 325,000 s. Tr. pkt., 35c; ½ oz., \$1.35.

Statice

Perennial Statice are very hardy, make good cut flower material and some as noted can be successfully dried and dyed.

Caspia. 175,000 s. 30 in. Seedlings flower second season. Lilac. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

***Dumosa.** 19,000 s. 18 in. Dense clumps of silvery gray flowers produced second season from seed. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.85.

Tatarica. 15,000 s. 14 in. Small white flowers that may be dried. Tr. pkt., 15c; 1 oz., 65c.

***Latifolia (Sea Lavender).** 40,000 s. 30 in. Standard blue perennial Statice. Very hardy and may be dried. Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.35.

Perezi. 14,000 s. Flowers in large lavender heads first year from seed. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.85.

Puberula. 5200 s. 8 to 10 in. A dwarf form with flower heads similar to S. Latifolia. Flowers second season. Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.50.

Stokesia

Cyanea. 3300 s. 16 in. Large blue flowers. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

Thalictrum

Dipterocarpum. 12,000 s. 3 to 4 ft. Early June flowering.

Rosy purple clusters of flowers. Flower second season with us.

Aquilegifolium. 40 in. Shades of lilac and mauve.

Prices EACH above: Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

BUSINESS TERMS

NOTE—CASH DISCOUNT! When cash is enclosed, a discount of 5% is allowed on all orders from \$1.00 to \$25.00. On \$25.00 and over, 8% is allowed. Prices quoted on Cyclamen seed and Plant Bands however are net, no cash discount.

Cash should accompany all orders unless credit has been established. **IMPORTANT!** Make all checks or money orders payable to GEO. J. BALL, INC., WEST CHICAGO, ILLINOIS.

NOTE. Our seed sold only in our printed packets or containers. Order from us only or thru our regular agents.

ALL PRICES in this catalog subject to change without notice.

ALL SEED ORDERS are sent prepaid to U.S. and Canada at catalog prices.

DISCLAIMER. We, Geo. J. Ball, Inc., give no warranty expressed or implied, as to description, quality, productiveness or any other matter of any seeds we sell, and we will not be in any way responsible for the crop. If the purchaser does not accept the seeds on these terms, they are

Tritoma

Mirabilis Hybrids. 20,000 s. Yellow and orange shades. Varies. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Trollius

LEDEBOURI (Globe Flower). 8000 s. Allow seed to stand outdoors over winter for good germination.

***Golden Queen.** 3 to 4 ft. A fine early large orange variety. Tr. pkt., 50c; ¼ oz., \$2.00.

Orange. 24 in. Tr. pkt., 50c; ¼ oz., \$1.50.

Tunica

Saxifraga. 150,000 s. 8 to 10 in. Small rosy lilac flowers produced first season from seed. Tr. pkt., 15c; 1 oz., 75c.

Valeriana

Rubra. 13,000 s. 36 in. Deep crimson. Good for cutting.

Viola (Cornuta)

Miniature Pansies. Extra free-flowering and effectively used for bedding.

Apricot. Large flowered true apricot shade. Chantreyland better. Tr. pkt., 35c; ¼ oz., \$1.25; 1 oz., \$4.00.

***Arkwright Ruby.** Maroon-scarlet with dark center. A highly attractive bright color. Tr. pkt., 35c; ½ oz., \$1.00; ¼ oz., \$1.60; 1 oz., \$6.00.

***Chantreyland.** Extra large flowered true apricot. Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$5.00.

G. Wermig. Rich violet-blue between Jersey Gem and Mauve Queen. Tr. pkt., 50c; ½ oz., \$1.00; ¼ oz., \$1.60; 1 oz., \$6.00.

***Jersey Gem. (True Stock).** Attractive large deep Cattleya. Tr. pkt., 50c; ½ oz., \$2.00; ¼ oz., \$3.75.

Johnny Jump Up. A tiny flowered, but unique species; purple, blue, and yellow shades. Tr. pkt., 50c; ½ oz., \$1.00.

***Lutea Splendens.** Clear golden yellow. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.75.

Mauve Queen. Light cattleya. Very true. Tr. pkt., 35c; ¼ oz., 65c; 1 oz., \$2.25.

Papilio. Blue and white combination. Extra dwarf and free flowering. Small flowered. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.75.

Puck. Purple with yellow wings and dark pencillings. Small flowered. Tr. pkt., 35c; ¼ oz., \$1.25; 1 oz., \$4.00.

White Perfection. Small pure white. Tr. pkt., 35c; ¼ oz., 85c; 1 oz., \$2.75.

Large-Flowered Mixture. Complete mixture of all large flowered varieties. Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.75.

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Another BALL SERVICE



Dear Customer:

We have frequently in the past been called on to supply various florists' plant and supply needs. This led up to our Mum cutting and plant band business. The frequent call upon us for various other needs is responsible for the general plant and supply department we have added. This business is under the direction of Charles Newbold, a veteran in this line. He is ably helped out by our dozen or more salesmen that cover the entire country for us. This cooperation is frequently valuable in locating dependable specialists in plant lines.

For growers whose needs in specialty plant lines are limited, the tendency to buy small stock or rooted cuttings is a sound and economic one for the overhead costs on a few hundred is usually much greater than when produced as a specialty. Also, southern growers increasingly realize that many cool temperature plants--Calceolaria, Cinerarias, Melior type Begonias, etc.--are better bought from the north in the small pot stage.

Needless to say that in the conduct of this business, our well-known principle "All the Best--Nothing Else" will be rigidly adhered to as far as it is within our ability to do so.

Very respectfully,

GEO. J. BALL, INC.

Geo. J. Ball.

GJB:ESM

Lilies

Daffodils

Iris

Amaryllis

Callas

Tuberous
Rooted
Begonias

Gloxinias

Anemones

Ranunculus

Freesias

Caladiums

Carnations

'Mums

Azaleas

Begonias

Roses

Hydrangeas

Poinsettias

Perennials

BALL PLANT DEPARTMENT

"Flower Seeds for Florists"

Through the interest of greenhouse growers, the color range, length of stem and trueness to color, as well as the value of greenhouse Snaps is increasing annually. And, if grown in clean soil, a raised bed, moisture carefully controlled, with all possible ventilation, little or no disease will worry the grower. But keep the young stock moving: the weakening effect of a check, as well as excess moisture, increases their susceptibility to rust. While sowing dates will vary between the North and South, most of it is done in these sections between early June and early July.

The color of flowers portrayed accurately represents the very early Mary Ellen and the late St. Louis Pink. Under winter conditions. Both are splendid for cutting.

Growing and supplying good forcing Snapdragon seed is one of our leading specialties.



Geo. J. Ball
I N C.
WEST CHICAGO
ILLINOIS